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COLLEGE

Bulletin 1983-1984



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LA SALLE COLLEGE

BULLETIN

1983-1984

CATALOG ISSUE

A LIBERAL ARTS COLLEGE

FOR MEN AND WOMEN

CONDUCTED BY

BROTHERS OF THE CHRISTIAN SCHOOLS

PHILADELPHIA, PENNSYLVANIA 19141

215-951-1000

AN EQUAL OPPORTUNITY COLLEGE

La Salle College does not discriminate against any applicant because of race, color, creed, sex, age, physical handicap, or national origin. Admission is based upon an applicant's qualifications and ability to meet the established requirements for admission and for specific programs.

ACCREDITATION AND MEMBERSHIPS

La Salle College was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, the Pennsylvania State Board of Law Examiners and the Council of Social Work Education..

The College is a member of the American Council on Education, the Association of American Colleges, the College Entrance Examination Board, the American Association of Collegiate Registrars and Admissions Officers, the Association of College Admissions Counselors, the National Catholic Educational Association, the College and University Council of Pennsylvania, the Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, the Pennsylvania Catholic Education Association, the American Library Association, the National Commission on Accrediting, the American Catholic Historical Society, the Educational Conference of the Brothers of the Christian Schools, and the National Association for Foreign Student Affairs.

RIGHTS AND PRIVACY ACT PROVISIONS

Each year, La Salle College informs students of the Family Educational Rights and Privacy Act of 1974. This Act was intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

To fulfill basic requirements for compliance with the Act, each institution must inform each student of his/her right to prevent disclosure of personally identifiable information. Although La Salle does not publish a public directory, the Office of the Registrar, at its discretion, does disclose the following information: Name, address, dates of attendance, class, major field of study, and degree(s) conferred (including dates).

Under the provisions of the Rights and Privacy Act, currently enrolled students may withhold disclosure of such information. To prevent disclosure, written notification must be received by the Office of the Registrar by October 1st in the Fall Semester and February 15th in the Spring Semester.

The College will honor each request to withhold any of the categories of information listed above but cannot assume responsibility to contact a student for subsequent permission to release them. Decisions about withholding any information should be made very carefully. Should a student decide to inform the institution not to release any information, any future requests for such information from non-institutional persons or organizations will be refused.

La Salle College assumes that failure to request the withholding of "directory information" indicates approval for disclosure.

LA SALLE COLLEGE BULLETIN (USPS 299-980)

VOL. 64

MARCH 1983

NUMBER 1

Published four times a year in March, May, June and December, by La Salle College, Olney Ave. at 20th St., Philadelphia, Pa. 19141. Second class postage paid at the post office at Philadelphia, Pennsylvania.

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A Profile



To Introduce Ourselves . . .

Here is a miscellany of facts about La Salle that may help you get a feeling for the quality of life here at 20th and Olney. Did you know that . . .

The average class size at La Salle is 21 students. There are no lecture sections numbered in the hundreds as there are at many universities. And professors grade their own papers and know their students' progress. No graduate assistants handle these important chores.



A recent survey (1980-81) showed that La Salle graduates had received acceptances from a long list of law schools. In addition to local schools like Temple, Villanova, and the University of Pennsylvania, the list included Rutgers, Delaware, Catholic University, Cornell, Berkeley, and Virginia.



Since 1977, 99% of students who were highly recommended by La Salle were offered places in medical schools.



Several La Salle graduates have achieved success in the communications field. Dennis Cunningham is a well-known drama critic for CBS-TV in New York, and Jack Jones, formerly of WCAU-TV, is now an anchorman in Chicago. Among recent graduates, Eileen Matthews, '81, began as an intern while a senior and is now assistant producer of Channel 10's "Ten Around Town." Peter Roscoe, also '81, is Operations Manager for Shadow Traffic.



Scores of La Salle graduates are now partners in national public accounting firms, and graduates of the accounting program are actively recruited by the country's ten largest accounting firms. Every year, recruiters representing 100 of the nation's major businesses visit the campus to interview students.



La Salle has cooperative and internship programs that allow students to gain practical experience and earn while learning.



Since 1965, each graduating class has averaged about 40 graduate and professional school fellowships, scholarships, and assistantships.

To be a bit more statistical, over the decade from 1972-82, La Salle graduates won 14 Fulbright Scholarships, a Marshall Scholarship, and four Rotary International Gundacker Fellowships for study abroad. These were in addition to the 223 other institutionally-sponsored scholarships, assistantships, and fellowships awarded to La Salle students.



In 1983 John Saponara, a physics major at La Salle, received a Fulbright Award for study in England. There were 25 such awards made from among 700 applicants, and John was one of only five undergraduate seniors selected.



According to the *Newsletter* of the National Collegiate Honors Council, La Salle College has "a rich Honors Program of a very special sort not available to larger, general universities," as well as a "really extraordinary track record in terms of garnering Fulbright, Danforth, and Marshall scholarships."



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Approximately 85% of La Salle students receive financial aid. Since aid is calculated on a "needs formula," a student attending a private college may actually be eligible for more aid than a student attending a public college with an apparently lower tuition.



The Cornell Wordsworth Series (called by *Choice* "one of the great scholarly enterprises of our time") is directed by scholars at Cornell, North Carolina, Oxford, Yale, and La Salle.



La Salle professors have garnered 26 coveted National Endowment for the Humanities grants for scholars since 1977 in nationwide competition. This year La Salle was included among 19 institutions in the U.S. having multiple winners in the NEH Fellowships for College Teachers Programs. In fact, it was one of only seven institutions in the nation to have multiple winners in one academic department (English).



Lita Solis-Cohen, Philadelphia *Inquirer* art and antiques columnist, has written that La Salle has "the finest college art gallery in the Philadelphia area" and that "one would have to go to Yale, Harvard, or Princeton to find a better one."



La Salle and the University of Pennsylvania are the only two Philadelphia area institutions to bring the Royal Shakespeare Company's Actors-in-Residence program to their students and the community.



The winner of the 1982 Pulitzer Prize for drama, Charles Fuller, attended La Salle College Evening Division.



The list of All-Americans from La Salle includes Tom Gola, Ken Durrett, and Michael Brooks in basketball; goalie Diane Moyer in field hockey; Olympic gold medalist Joe Verdeur in swimming; and Kathy McGahey, our first All-American in two sports, field hockey and softball.



In a nationwide survey of 200 top liberal arts institutions to determine how many of their graduates subsequently received Ph.D.'s, La Salle ranked in the upper 21% in the arts and humanities and in the upper 30% overall. This statistic is one of the indices frequently cited as a measure of the quality of a particular undergraduate institution.

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Everyone thinks of basketball in connection with La Salle, and not without reason. Consider: La Salle is one of only nine teams that have won both NCAA and NIT championships; the NCAA ranks La Salle 13th on the list of winningest teams in America.



La Salle's communications majors are currently producing a weekly public affairs documentary, "Both Sides Now," for radio station WWSH-FM in Philadelphia, the fourth largest market in the U.S.



Among La Salle's 24,000 alumni are a thousand doctors and dentists, 500 lawyers (including 14 judges), and over 2,000 educators. More than 80% of the alumni live and work in the tri-state area. Nearly 5,000 work in business and industry in Greater Philadelphia, and more than a thousand are employed in local, state, and federal government.



The People

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students and the teachers—who give the College its character. You may well ask, “What are they like, these people with whom I may spend my next four years?”

As you might expect, your fellow students are a diverse group of men and women, not easy to categorize. Statistics permit a few generalizations, however: geographically, a majority are from the northeastern states; academically, three-fourths of them were graduated in the first or second quintile of their high school class. More than half of them hold part-time jobs, and 67% say they plan graduate or professional studies after college.

Your teachers at La Salle are Christian Brothers, priests, and lay professors. All of them share the same goal: to be of as much help to you, the student, as they can be. St. La Salle's dedication to teaching is the informing spirit of the College, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.



Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of conferences with the Counseling Center staff, as well as representatives from Financial Aid, Resident Life, Placement and other areas of the College. During the program you will have a personal interview with a counselor to discuss your educational and career plans and will meet with an academic adviser who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators anxious to be of help. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff is happy to assist you in making a sound choice based on your interests and capabilities. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs and alcohol, selective service and a variety of occupations. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, overcoming shyness, improvement of study skills, and group decision making are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth.

Being part of a church-related college means you are also part of a community in which people care about one another. The Campus Ministry plays an important role in maintaining that sense of community by stimulating student participation in planning and celebrating the liturgy, by encouraging Christian commitment to social action, and by generally making you more aware of what it means to care for God, yourself, and others.

Nor is your physical well-being neglected while you are on campus. A College physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-time or summer jobs related to their career goals.

All in all, you will find the people at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.

The Campus

For a city college, La Salle's campus is surprising. Tucked behind the brick facades on Olney Avenue is a pleasantly green and peaceful tract of about fifty acres. Though buses stop at the door and the subway is only a few blocks away, the campus benefits from some of the country-like aspects of its site. Across 20th Street is historic Belfield, one of the few farms within the city limits. South of the campus lies Wister Woods, now a part of Fairmount Park. The result of these happy accidents of locale is that the campus retains a somewhat suburban atmosphere while losing none of the advantages of being an urban college.

In Philadelphia, these advantages are both educational and cultural. The city has a noteworthy group of educational institutions, with a variety of specialized libraries. Its orchestra and museums are internationally famous. Most of the city's cultural and historical resources are within convenient commuting distance from the campus.

Architecturally, the buildings on campus reflect the history of the College's growth, ranging from the traditional collegiate Gothic to the modern.

In addition to the classroom buildings (College, Wister, Holroyd, and Olney Halls), the residence halls, houses and apartments, the campus has the David L. Lawrence Memorial Library, the College Union, and the Hayman Hall athletic facilities.

Over 285,000 volumes are housed in the air-conditioned Lawrence Library and its Wister Hall Annex, along with reading rooms and files of a thousand periodicals. The College Union is a center of student activities, containing dining rooms, lounges, a theatre, and activities offices. Hayman Hall features a swimming pool and diving well, basketball and squash courts, an indoor track, a sauna bath, and other athletic facilities.

A special feature of the campus is the Art Gallery in Olney Hall, which one critic describes as "the finest college art gallery in the Philadelphia area."





The Residential Community

Living in the La Salle residence halls should be an enhancing educational experience. As a member of the residence community, you have opportunities for greater participation in educational and social programs, community governance, and campus activities. Practically speaking, it is convenient to live in the residence halls. You are within short walking distance from all classes, the Library, the College Union, the gymnasium, and all faculty offices.

Each floor of the residence halls contains a mixed group of students ranging from freshmen to seniors. The groups are small enough to encourage a spirit of friendship, yet large enough to provide for diversity of personalities and interests. As a resident you are exposed to a wide range of academic, cultural, and social opportunities.

The Resident Life Office and the student Residence Council sponsor social functions, movies, coffee houses, lecture series, trips, and an extensive intramural athletic program. These activities, combined with the varied athletic and recreational facilities, furnish a complete residential experience.

Life in a college residence hall is a unique experience not easily duplicated elsewhere. Living with friends—studying, dining, and socializing together—provides you with chances to learn about yourself, to explore and formulate attitudes and values, and to refine your ability to get along with people. At La Salle, many things—staff, students, facilities, organizations, location, and costs—are blended to offer residents opportunities to experience the benefits of living away from home in a college community.

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The Social Life

The social side of college life is a vital part of your education. In living with others, planning activities together, and sharing your ideas in hours of informal discussion you are learning much that is a desirable part of liberal education. You are learning to understand and respect differing points of view; you are learning to discover new relationships and to develop your own convictions.

La Salle, like most colleges and universities, recognizes that student activities play a distinctive role in the total educational program. Participation develops social and leadership skills and provides an opportunity for students from diverse backgrounds to learn from one another. All students are encouraged to become involved in one or more of the social, cultural, educational, and recreational programs available.

Student participants on college committees share with the faculty and administration in identifying institutional objectives and developing policies and programs to maintain and improve the La Salle experience.

An important part of college, therefore, is the opportunity to voice your concerns and to test your thinking in conversations and meetings with others.

Athletics too may develop common interests among students, whether they are participants or spectators. Organized intercollegiate and intramural sports and recreation programs give each student an opportunity to participate according to interests. Male varsity teams include basketball, baseball, swimming, track, cross country, crew, soccer, golf, rifle, tennis, and wrestling. Female teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, and track. Intramural sports such as touch football, volleyball, basketball, softball, track, swimming, and water polo have male, female, and co-ed teams. The department also provides recreation opportunities in the gym, pool, squash courts, and sauna, seven days a week.

The La Salle College Union Building is the focal point of much out-of-class activity, offering facilities to complement the activities planned by student, faculty, and administrative groups. In addition to faculty members and administrators who work regularly with organized groups of students, the staff of the Student Life Office works to insure available Union building facilities and advice to extracurricular groups. The combination of students, faculty, and administration working together, sharing ideas and learning from one another, makes the social life a part of the growth and development opportunity at La Salle.

The History and Traditions

La Salle College was chartered by the Commonwealth of Pennsylvania in 1863. Its founders were a group of Christian Brothers, some diocesan priests, and several Catholic laymen. It was located at St. Michael's, one of the oldest parishes in Philadelphia. As the new college grew, it moved first to a center city site at Juniper and Filbert Streets and then to the old Bouvier mansion at 1240 North Broad Street.

La Salle moved to its present location at 20th Street and Olney Avenue in 1929, purchasing part of historic Belfield Farm, once the home of American painter Charles Willson Peale. No sooner had work begun on the collegiate Gothic towers of College Hall than the country plunged into the greatest depression it has ever known. Somehow La Salle College survived the financial doldrums of the 1930's only to be faced by the greater threat posed by the depletion of the all-male student body during World War II. At its lowest enrollment the College had only 90 students.

After the war's end, a tremendous influx of veterans created an entirely new challenge of overcrowding. La Salle began an era of expansion that has continued to the present day. In 1970 La Salle ended its century-old tradition as an all-male institution and accepted its first women students. Today women make up 45% of the day school enrollment.

The building and expansion of La Salle College has continued at a rapid pace ever since 1946. A significant resident population of 1250 students is housed on campus. The most recent additions to the buildings on campus include a new wing of the College Union and a 350-bed residence hall and dining room facility.

The physical growth on campus has been matched by the vitality and innovation of academic and student affairs programs. The curriculum was revised after a careful faculty study. New majors have been added in Computer Science, Communication Arts, and Public Administration, and new concentrations within departments enable students to follow programs in international studies, work psychology, urban studies and women's studies. A special honors concentration in business was introduced. Financial aid to students has increased dramatically, as have the activities and services of the Student Affairs area.

The College is committed to a continuing, rigorous self-study, seeking to find new ways to meet the needs of its students in keeping with its objectives as an urban, liberal arts, multi-purpose institution within a Catholic tradition.

TRADITIONS AND OBJECTIVES

Though often mistakenly connected with the French explorer, the name of the College commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of

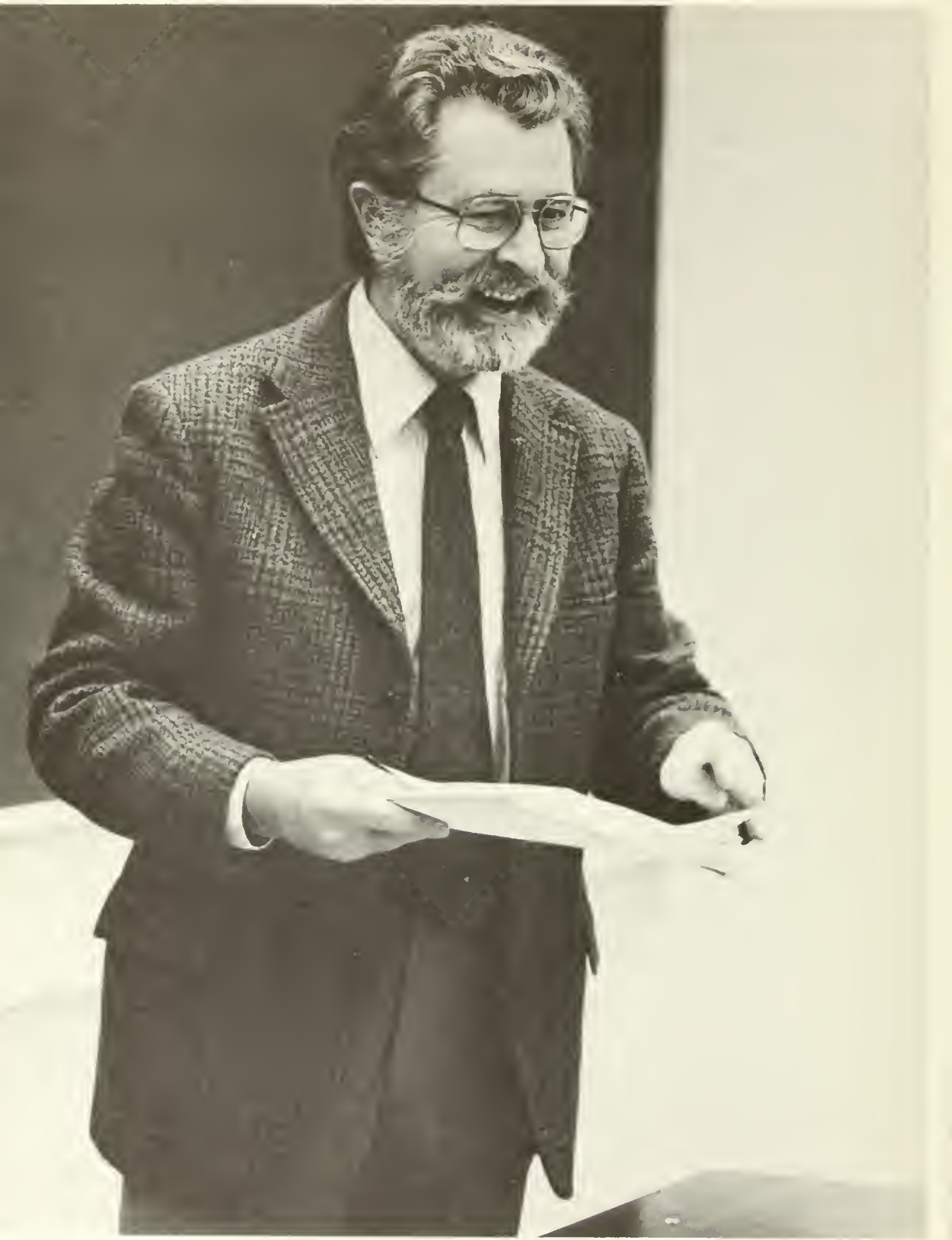
religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, La Salle College strives to continue such La Sallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the College is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the College urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the College encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

La Salle is committed primarily to undergraduate education. The College also offers Master's programs in selected areas of specialization. For the most part, these programs focus on professional goals through advanced study and through application of theoretic knowledge in the fields represented.

As a private Catholic college, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the College is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.



The Academic Life

“The only privilege a student had that was worth his claiming,” wrote Henry Adams, “was that of talking to the professor, and the professor was bound to encourage it.” La Salle professors do encourage it, and classes are small enough to permit discussion and personal relationships with your teachers.

The result is an academic environment where learning and intellectual development are nourished. In more concrete terms, the result is the gratifyingly high number of prestige awards won by La Salle graduates. Over the past decade, for example, La Salle has had 21 Fulbright Scholars, four Danforth Fellows, and one Marshall Fellow.

The presence at La Salle of good teachers, a fine library, and uncrowded classes are all helpful to your academic success, but the actual achievement of your academic goals is ultimately up to you.

The most important adjustment to collegiate life you will have to make is in learning to budget your time wisely. No one will force you to learn; no one can. Instead, you will be treated as a mature, intelligent person. You will be given assigned readings, papers, and projects in research to be turned in by a certain date. You yourself must plan when these assignments will be done; you yourself must bear the responsibility for meeting standards set by your instructors.

The standards for academic achievement are treated in some detail in the reference section of this catalog and need not be discussed here. The important thing for you to realize about the academic side of your college life is that it is the central test of your maturity and sense of responsibility. Learning is sometimes hard work, but it is the most rewarding kind of effort, not only in grades but in the self-satisfaction of having met a difficult challenge successfully.

But the academic side of college is not just a bleak picture of challenges, responsibilities, and standards. The academic side really offers one of the deepest, most lasting joys a person can experience—the joy of understanding.

Suddenly some part of human experience fits into a pattern for you; suddenly you understand why. The best part of the joy of understanding is that it is endless. The deeper your understanding goes, the deeper the satisfaction you experience.

Perhaps you haven't yet discovered this kind of joy; you may even doubt that it exists. Yet when you first experience it, you will begin to understand what education is all about and why many people willingly devote their lives to study and research.

General Reference



Admissions

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and the recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, age, national origin or physical handicap. Admission is based solely upon an applicant's qualification and ability to meet the established admission requirements.

APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle College.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. Phone 215-951-1500.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the College by the high school. Completed applications and the \$20.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

ADMISSION REQUIREMENTS

HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work including the following:

English	4 units
Mathematics:	
Algebra & Plane Geometry or	
two years of Algebra	2 units
History	1 unit
Natural Science	1 unit
Foreign Language	2 units
	<u>10 units</u>

The remaining six units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present six other units in academic subjects.

2. Applicants for the *Science, Mathematics or Computer Science* programs may present six other units in academic subjects but including an additional one and one-half units in mathematics.
3. Applicants for the *School of Business Administration* may present six academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEE—	The Educational Testing Service Box 592, Princeton, NJ 08540
	or
	Box 1025, Berkeley, Calif. 94701
OR ACT—	The American College Testing Program Box 451 Iowa City, Iowa 52240

La Salle College's identification number: CEEB-2363; ACT-3608

ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisers, however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

MEDICAL RECORDS

All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the College.

FOREIGN STUDENT ADMISSIONS

La Salle College is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant "F-1" student status, to foreign students who meet admissions requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle College, Philadelphia, PA 19141.

ADVANCED PLACEMENT

La Salle College participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the College agrees to give credit and/or

advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement
- 3 = Same, on recommendation of departmental head
- 2 = Advanced placement only on recommendation
- 1 = No advanced placement or advanced credit.

La Salle College also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, NJ 08540.

TRANSFER STUDENTS

La Salle College welcomes qualified transfer students to the fall and spring terms and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle College should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. Students applying for transfer from a fully accredited college or university will be considered for admission if their grade point average is 2.25 (on a 4.00 scale), but a 2.50 or higher is preferred. Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each application is based mainly on the grade point average earned at the college or university the student attended before applying to La Salle.

Credit will be allowed for courses completed with grades above the lowest passing grade given at the institution from which the applicant is transferring. Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Interested prospective students should direct their inquiries to the Assistant Director of Admissions for Transfer Students.

ACADEMIC DISCOVERY PROGRAM (ADP)

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free counseling and tutorial support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students establish good study habits, clear career goals, and the ability to compete successfully in the academic setting. Members of the ADP participate in a free pre-college summer program before their freshman year and in assigned counseling and tutorial sessions along with their regular courses during the academic year. As much as possible, each student's program is

tailored to his or her individual needs. To obtain application materials, write or call the Day Admissions Office, 215-951-1500. For further information regarding ADP or the Community Academic Opportunity Program Grant or call the Academic Discovery Program Office, 215-951-1084.

ADMISSIONS FOR VETERANS

All veterans coming directly from the service with proof of a high school diploma or its equivalent are eligible to enroll as students at La Salle College. For answers to specific questions, veterans may telephone the Registrar's Office, 215-951-1020.

CONTINUING EDUCATION FOR WOMEN

The Continuing Education for Women (CEW) program at La Salle is designed to ease the transition for adult women who wish to begin or resume their college education. Women may enter this program in the Day or Evening Division whether they are interested in taking single courses or pursuing a degree. Any woman 24 years or older who has a high school diploma or equivalent is eligible to apply. The program includes academic advising, an orientation day, study skills workshops, support groups, individual counseling, referral to campus day care facilities, and special get-togethers for CEW students. CEW encourages potential students to have an interview with a staff counselor to discuss questions she may have about her educational and career goals, and to clarify information about La Salle courses and schedules. To arrange an interview or to apply for admission through the program, visit the CEW office, located on the lower level of College Hall or telephone 215-951-1060. The office hours are 8:30 to 8:30 Mondays through Thursdays, 8:30 to 4:30 on Fridays.

ACCOMMODATIONS FOR RESIDENTS

The residence facilities accommodate approximately 1200 students and consist of ten co-ed halls (including a new 300-bed facility), two apartment complexes and several special interest houses. An application for housing and the required residence deposit should be submitted when confirming acceptance to the College. The Resident Life Office will then inform the student of the application status. If a space is reserved, and the student decides after July 15 not to live on campus, the entire residence deposit is forfeited.

Each student in residence is provided a furnished room. Students are to supply their own linen. Adequate laundry facilities are available within the residence complexes, and many personal needs such as toilet articles, paper supplies, towels, sportswear and magazines may be purchased at the campus store.

The residence halls provide complete living, learning and recreation facilities. There are air-conditioned lounge areas, recreation areas and 24-hour quiet study lounges. Residents are permitted to have cars on campus. Complete detailed information regarding resident life and facilities can be found in *You've Got a Lot to Live: The Resident Student Survival Guide* published by the Resident Life Office.

Food service is provided in the new North Complex dining hall, the College Union Dining Hall, and adjoining Snack Bar Cafe. All hall and house residents must be on a meal plan. Since the meals must be planned on the basis of total participation, no adjustments in fees can be expected for meals not taken on campus. Students have a variety of meal plans to choose from. Special diets for medical reasons can be arranged through the Food Service Department, 215-951-1388.

Both the residence and dining facilities are closed during the Thanksgiving, Christmas and Spring recesses.

The resident life administration is headed by a professionally trained staff who reside there. In addition a Resident Assistant resides in each living unit and acts as a paraprofessional counselor, referral agent, administrator, and activity programmer. The graduate and undergraduate staff receive room and board compensation and are an outgoing and diversified group who are interested in working with students to make college life in residence an enjoyable and educational experience.

For further information about resident life, contact the Resident Life Office, North Halls Complex, Telephone 215-951-1550.

OFF-CAMPUS HOUSING

In order to assist members of La Salle in locating available housing in the surrounding community, a variety of services are available through the Off-Campus Housing Service. They include: off-campus housing referral listings; roommate referral lists; general off-campus rental information (tenant-landlord relations, roommate selection, consumer protection, neighborhood business and services, etc.).

La Salle College does not inspect available accommodations or screen prospective landlords and tenants. Any questions pertaining to off-campus housing should be directed to Off-Campus Housing, Student Life Office, La Salle College Union, Room 205, Telephone 215-951-1370.

COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both the fall and spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.

STUDENT HEALTH SERVICES

The La Salle College Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday. The Dispensary is staffed by a registered nurse who serves as the Director. College physicians see students in the Staff Clinic of Germantown Hospital five days a week and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services-Health Questionnaire prior to their attendance at the College.

Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical speciality is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their own family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.

Expenses

	Per Semester
Basic tuition	\$2,270.00
Additional for science majors (biology, chemistry, physics, geology)	83.00
Tuition — for courses taken in excess of or less than a normal schedule — per semester hour	165.00
Science Laboratory Fee — charged non-science majors electing to roster certain designated science courses — per course	45.00
Computer Science, Communications Fee — charged for certain designated courses — per course	45.00
Counseling and Orientation Fee — charged to entering students in their first semester only	50.00
Administrative Fee — charged to students who elect to receive credit through authorized standardized testing procedures or approved in-house tests — per course	36.00
Room Rent	
Residence Halls ¹	
Double Room Rent	775.00
Single Room Rent	925.00
Quad Room Rent	850.00
Residence Hall Orientation Fee — charged in first semester only	25.00
Apartment Rent	925.00
Meal Plans	
Plan A — provides the average eater with the equivalent of lunch and dinner for five days a week	585.00
Plan B — provides the average eater with the equivalent of breakfast, lunch and dinner for five days a week	720.00
Plan C — provides the average eater with the equivalent of breakfast, lunch and dinner Monday through Friday and brunch and dinner on Saturday and Sunday	935.00

¹Students living in the residence halls are required to participate in one of the meal plans.

In view of rising costs, La Salle College must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

METHOD OF PAYMENT

Students are billed twice a year for one-half of the annual tuition and the room and board costs. Invoices for the fall semester are due in mid-August and for the spring semester in mid-December. Payment in full of the semester invoice within the time prescribed is required for the completion of registration and inclusion on the official class lists. The College does not carry open student accounts. Master Card and VISA credit cards may be used for payment of College expenses.

GRADUATION FEE

A graduation fee of \$40.00 is due and payable in the spring semester in which the degree will be awarded. The College cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after the deadline set at the billing

date. The graduation fee covers the Graduate-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

REFUND OF TUITION

Under certain circumstances, students who withdraw may receive a partial refund of tuition. There are no exceptions to the following terms and conditions.

Fall and Spring Undergraduate Semesters

<i>Time of Withdrawal</i>	<i>Refund</i>
Before first day of class	100%
During first week	80
During second week	60
During third week	40
During fourth week	20
After fourth week	None

For the purpose of refund, the student shall be considered to be in continuous attendance up to and including the date of submission of proper notice of withdrawal. The notice of withdrawal must be addressed to the Dean of the particular school. Ceasing to attend or giving notice to an instructor does not constitute proper notice. The allowed percentage of refund shall be based upon the official withdrawal date which shall be determined by the date the notice of withdrawal is received by the Dean, or the postmark, if mailed.

For the purpose of refund computation, a week shall be defined as the period of seven successive days beginning with the official College opening of classes and NOT the first day in actual attendance by a particular student.

In those instances where a student's educational expenses were satisfied in whole or in part by Title IV Program Funds, and a refund of these educational expenses is authorized, that refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students. Under those regulations, priority is given to the return of funds to Title IV Assistance Programs in the following order: State Grant Programs, SEOG, NDSL, Pell Grants, Guaranteed Student Loans. Students should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to the College.

RESIDENCE HALL REFUNDS

Meal Plan

If a student leaves the Residence Halls, a pro-rata refund will be made for the unused portion of his or her meal plan.

Room Rent

Regardless of the reason for vacating, refunds will not be made for unused room rent.

Financial Aid

No student is denied admission because of financial need. The financial aid programs at La Salle provide opportunities for scholarships, grants, loans, and student employment. Eligible applicants for financial aid will be considered for any form or combination of forms of assistance.

Since the primary responsibility for college expenses rests with the parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. Regardless of state of residency, incoming students seeking assistance are required to submit the application for Pennsylvania State Grant and Federal Student Aid before February 15. Forms are available at the guidance office of the secondary school or from La Salle College. Students are also expected to apply to appropriate state grant programs.

CHRISTIAN BROTHERS' SCHOLARSHIPS

La Salle College offers fifteen full tuition scholarships to students graduating from all Catholic high schools in the Philadelphia and Camden dioceses and from high schools conducted by the Christian Brothers of the Baltimore Province. Selection is based on academic excellence and potential for leadership in the La Salle community. Applications are restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals. All completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

COMPETITIVE SCHOLARSHIPS

Twenty-seven scholarships providing full tuition are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. This scholarship competition is open to high school seniors who have scored approximately 1300 in the College Board Scholastic Aptitude Test and who have a class rank in the top 10 or top 10% of the high school graduating class. Application materials may be obtained by contacting the Director of the Honors Program. The completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

NATIONAL MERIT GRANTS AND SCHOLARSHIPS

Students selected as National Merit Finalists, semi-finalists, and letter-of-commendation recipients are eligible for grants through the College. Finalists qualify for \$800 per academic year, semi-finalists receive \$600 per academic year, and commendation recipients are granted \$300 per year. These are awarded to incoming freshmen and can be renewed yearly pending completion of the application for Pennsylvania State Grant and Federal Student Aid.

La Salle College offers two National Merit Scholarships annually ranging from \$250 to \$1500 per academic year. Students are selected by National Merit Scholarship Corporation from those qualifying in the College Boards and indicating La Salle College as the first choice institution. Nominees should complete the application for Pennsylvania State Grant and Federal Student Aid.

CHRISTIAN BROTHERS' GRANTS

La Salle College offers a limited number of partial grants to students who have established exceptional financial need through a needs analysis system, e.g. the application for Pennsylvania State Grant and Federal Student Aid. These partial grants can be renewed yearly pending completion of the needs analysis form.

ATHLETIC GRANTS

La Salle College offers grants to men and women excelling in athletics. Contact with the La Salle College Athletic Department is made by the student's high school coach. These grants can be maintained through the four years of study at La Salle College.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)

The Community Academic Opportunity Program is a grant available to students who have been accepted into the Academic Discovery Program. It is designed to give financial assistance to economically and educationally disadvantaged minority students from the surrounding neighborhoods; specifically, a student must reside in zip code areas 19119, 19120, 19126, 19138, 19141, 19144 or 19150.

The basic CAOP grant includes \$1500 per year towards the cost of tuition and up to \$150 per year for books; CAOP students must also apply for PHEAA and Pell through the filing of the application for Pennsylvania State Grant and Federal Student Aid.

Further information and application materials are available from high school counselors or the Admissions Office of La Salle College.

PELL GRANTS (Formerly BEOG)

The Pell program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive from \$135 to \$1800 per academic year. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is determined by the federal government and notification is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

PENNSYLVANIA HIGHER EDUCATION GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS

Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from \$100 to \$1500. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full-time basis, and complete a minimum of twenty four credits per year. Applications are available from high school guidance counselors or the Financial Aid Office.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications would be available from the respective State Boards of Education.

NATIONAL DIRECT STUDENT LOANS

The NDSL provides needy students with long-term, low interest loans for educational expenses. The College determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 5% per year on the unpaid balance begins to accrue six months after the student ceases at least half-time study. The loan repayment

period may be as long as ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility. La Salle College requires submission of the application for Pennsylvania State Grant and Federal Student Aid to determine eligibility.

COLLEGE WORK STUDY PROGRAM

The College Work Study program provides needy students with access to part-time jobs in both on- and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the College. Employment is limited to an average of twenty hours per week while school is in session. La Salle College requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)

The SEOG program is a federally funded college administered program available to needy students in amounts up to \$2000 per academic year. La Salle College requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to financial need, students must make normal progress toward a degree to retain eligibility.

STATE GUARANTEED LOANS (SGL)

This loan program is administered by state governments with the assistance of participating lending institutions. Students taking at least six credits may apply to the program and receive as much as \$2500 per academic year, at the rate of 9% interest per year. Interest will begin to accrue six months after the student ceases at least half-time enrollment. Students should contact home state bank systems regarding program participation. Processing of the application may take as long as eight weeks.

PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS)

This program allows parents to borrow a maximum of \$3000 an academic year for each dependent undergraduate student. The interest rate is 12% and repayment begins within 60 days after the disbursement of funds. Independent undergraduate students may also borrow from the PLUS program. However, these students may not borrow more than a combined total of \$2500 from both the PLUS and Guaranteed Student Loan programs. Contact your local banks regarding program participation.

ARMY ROTC SCHOLARSHIPS

Army ROTC scholarships are offered for four, three, and two years. The four-year scholarships are awarded on a worldwide competitive basis to U.S. citizens who will be entering college as freshmen. The three- and two-year scholarships are awarded competitively to students who are enrolled or are eligible for advanced placement in ROTC, including those who are cross-enrolled.

Students who attend the Basic Camp of the two-year program may also compete for two-year scholarships.

The scholarships pay for tuition, textbooks, lab fees, and provide a living allowance of up to \$1000 each year the scholarship is in effect. The value of the scholarship depends on the tuition and other educational costs of the university or college attended.

Contact the Department of Military Science, 215-951-1365/1366, for further information.

PRIVATE SCHOLARSHIPS

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents' employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans' Bureau, Bureau of Vocation Rehabilitation and Social Security Bureau—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarships and financial aid in your school or local library or in the Financial Aid Office.

Information on private scholarships frequently received by La Salle students may be obtained from the following sources:

Philadelphia City Scholarship Program, 516 City Hall Annex,
Philadelphia, PA 19107

Hero Scholarship, City of Philadelphia, Room 490, City Hall,
Philadelphia, PA 19107

J. Wood Platt Caddie Scholarship, % Cecil J. Barnett, Esq., 20 Bala Avenue,
Bala-Cynwyd, PA 19004

LSC Alumni Scholarship, Director of Financial Aid, La Salle College, Philadelphia,
PA 19141

Lindback Scholarship, Director of Financial Aid, La Salle College, Philadelphia,
PA 19141

Bishop Corrigan Memorial Scholarship, Director of Financial Aid,
La Salle College, Philadelphia, PA 19141

Robert L. Dean Writing Scholarship, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141

Berger-Wallace Scholarship, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141

Merrill Trust Fund, Director of Financial Aid, La Salle College,
Philadelphia, PA 19141

Army ROTC Scholarships, P.O. Box 7000, Larchmont, NY 10538

Air Force ROTC Scholarships, AFROTC Det 750, St. Joseph's University,
Philadelphia, PA 19131

APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE

A candidate who desires financial assistance must submit the application for Pennsylvania State Grant and Federal Student Aid no later than February 15. Applications received after that date will be considered only if there are funds available.

Financial aid awards will be announced approximately six weeks after acceptance into the College.

Most types of financial aid require annual application. All applications for renewal consideration must be filed by March 15.

La Salle College's financial aid programs are organized to help the able student who needs financial assistance. As long as there is continuing evidence of academic progress as well as financial need, the College will make every effort to assist the student.

Academic Programs and Procedures

REGISTRATION

During an announced pre-registration period in the spring term, a student meets with his chairman or adviser to plan his roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses his course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If a student cannot register during this period because of circumstances beyond his control, he may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

PROGRAM OF STUDIES

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The program of studies prescribed by the student's adviser and approved by the dean of the school in which the student is enrolled is his official roster of courses.

It is the student's responsibility to see that all the requirements of his program are fulfilled. He should have in writing from the dean any exceptions to the prescribed program which may be granted him.

A student may be permitted to change from one program to another, or from one area of instruction to another, only when his previous record indicates that he may profit by such a change. In any change of this type the student must have the written permission of his chairman and the dean of his school. This change may entail taking approved summer courses or an additional semester in college. In no case may a student who transfers receive promotion or a degree sooner than he would have received it had he not transferred. No degree may be received less than one year after change of curriculum.

CLASSIFICATION OF STUDENTS

A full-time student carries a *minimum* of twelve semester hours, although normal progress toward a degree requires an average of fifteen hours a week. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a

degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

URBAN STUDIES

Students may design a minor concentration by choosing distribution requirements and electives in Urban Studies. The Economics Department supervises this program but it is multi-discipline in all essentials. Economics, Political Science and Sociology faculty co-teach most of the courses and professors from an even wider group of disciplines serve in close advisory capacities.

After five introductory courses students complete their Urban Studies concentration with a senior semester of integrated seminars and field work. Placements and projects are chosen to complement major programs. At all levels students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

CONCENTRATION IN INTERNATIONAL STUDIES

Any student, regardless of his or her major field, can pursue as an interest the Concentration in International Studies. This multi-discipline program allows the student to select courses offered by many departments.

The Concentration in International Studies requires a total of seven courses. At least four of these can also fulfill other college requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 314, Ext. 1030.

WOMEN'S STUDIES

Students of any major may design a concentration by choosing at least six distribution requirements and electives from the multi-disciplinary offerings of Women's Studies. An optional field internship may constitute one of the six required courses.

Women and men students interested in shaping a Women's Studies concentration should see one of the following professors who jointly coordinate the concentration:

Arleen Dallery, Wister 222, x1326—Philosophy
Caryn McTighe Musil, Olney 154, x1156—English
Judith Newton, Olney 158, x1160—English
Barbara Levy Simon, Olney 369, x1114—Sociology

DUAL MAJORS

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After

developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.

HONORS PROGRAM

The Honors Program is designed to provide the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. If he proves himself able and interested, he continues with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In his last two years, the honors student may, with the approval of his chairman, substitute an independent study course in each semester for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General College Honors. Further information on the program is available from the Director of the Honors Program.

COOPERATIVE EDUCATION PROGRAM

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The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the College with specific periods of employment.

A student may begin a coop program as early as the sophomore year and still complete requirements for graduation within four and a half years. Cooperative education can add relevance to a student's academic program, furnish practical experience, afford an understanding of human relationships outside of one's peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this program should see the Director of Cooperative Education.

LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle College offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with Providence College, La Salle College forms part of the American College Program of the University of Fribourg. This organization offers many courses in English.

In most instances, students will be housed in private homes or apartments located near the university. The rooms are chosen by the resident director of the program. Students accepted into the program attend an orientation course during the semester prior to departure. Those students deficient in French or German will be permitted to

enroll in special courses during the summer before departure. A 2.5 Grade Point Average is required. Interested students should see Dr. Leonard Brownstein, Adviser to U.S. Students Abroad.

UNDERGRADUATE LANGUAGE PROGRAM—UNIVERSITY OF SEVILLE

La Salle College is a member of the Council on International Educational Exchange and a consortium of 40 colleges and universities which forms a Cooperative Study Center in Seville, Spain.

The University of Seville is one of the oldest universities in Spain. Students may apply for a semester or an entire academic year. Each five-month session consists of two cycles. The first provides intensive language training, and the second offers a variety of special courses including Spanish language, literature, art, contemporary civilization, and teaching English as a foreign language. Students are housed in private homes. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.
3. To prepare the future teacher of Spanish for the role which he will play in the classroom situation.

Interested students should see Dr. Leonard Brownstein, Adviser to U.S. Students Abroad.

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NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center seeks to involve the resources of the College in the larger urban community. Its major programs are: (1) the Communiversity—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial and ethnic communities bordering the College. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to visit the Center, located at the corner of Wister and Clarkson, or to call 215-951-1188.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the

academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program, to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

ARMY RESERVE OFFICERS' TRAINING CORPS PROGRAM (ROTC)

Students get leadership and management training in the military science program — and they graduate with an officer's commission as well as a degree in their chosen academic major. Successful completion of the advanced ROTC program results in second lieutenant status in the active or reserve components of the U.S. Army.

Students (male and female) may participate in the ROTC program at La Salle by so specifying on their course selection form. No service obligation is incurred during the first two years of the program. Military Science 100 and 200 level courses are tuition free to full-time students. See course descriptions, listed under Military Science.

Students who successfully complete both MSC 100 and 200 level courses may be chosen for the advanced course. Advanced course and ROTC Scholarship recipients also earn a monthly stipend of \$100.00. (See Financial Aid section for more information on the ROTC Scholarship Program.)

Students transferring to La Salle, or current students who have not previously participated in ROTC, may take advantage of the special two-year program. They should make arrangements through the Department of Military Science as soon as possible.

Additional information is available from the Department of Military Science, La Salle College, Philadelphia, PA 19141, 215-951-1365.

AIR FORCE RESERVE OFFICERS' TRAINING CORPS

La Salle students are eligible to participate in Air Force Reserve Officers' Training Corps (AFROTC) through a cross-enrollment agreement with St. Joseph's University. All Aerospace Studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for a baccalaureate degree.

For further information on the cross-enrollment program, scholarships, and career opportunities, write or telephone the Professor of Aerospace Studies, AFROTC Det 750, St. Joseph's University, Philadelphia, PA 19131, 215-879-7311.

ATTENDANCE POLICY

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice

the semester hours scheduled for the course; for example, six absences in a three-hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

GRADES

The following system of grades is used in measuring the quality of student achievement.

A Superior	C Average	F Failure	W Withdrawal	U Unsatisfactory
B Very Good	D Passable	I Incomplete	S Satisfactory	X Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

Incomplete: The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

Withdrawal: The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily permission for withdrawal is not granted after mid-term examinations.

Satisfactory or Unsatisfactory: Students may take free electives under a pass/fail option. If they indicate this option to the Registrar within three weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student's major field.

Audit: The X grade is assigned for courses audited. After obtaining permission from the course instructor and the dean, a student wishing to audit a course may sign up in the appropriate dean's office before the first day of class.

Courses repeated: If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

CLEP EXAMINATIONS

Students may receive credit for approved courses taught in the La Salle College curriculum through participation in the College Level Examination Program (CLEP) of the College Entrance Examination Board, or through other authorized standardized testing procedures or in-house tests. Students who wish to attempt credit through examination must receive permission from their Dean's office to determine which examinations are acceptable to La Salle, and to obtain permission for participation.

While the Academic Dean determines the credits to be granted for CLEP and other authorized standardized testing procedures, the individual department designates the subject examinations which are applicable to specific courses at La Salle College. Students may not be granted credit for a general examination CLEP course after completion of the freshman year, and a student who has received credit through conventional courses or through standardized testing for one or more advanced courses in a discipline may not challenge a beginning course in that discipline. No grades are assigned to courses credited through authorized standardized testing procedures.

Students who elect to receive credit through authorized standardized testing procedures or approved in-house tests will pay an administrative fee of \$30.00 for each course examination taken.

STUDENT RESPONSIBILITIES

A student's matriculation at La Salle College is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the College. When registering at La Salle, the student accepts College rules and regulations and the authority of the College to exercise disciplinary powers including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the *College Bulletin*, the *Student Handbook*, *The Resident Student Survival Guide* and any rules and regulations subsequently promulgated through appropriate publication to the College community. Copies of the *Student Handbook* may be obtained from the Student Life Office.

STUDENT REPORTS

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC STANDING

First year students are required to earn a minimum average of 1.50 to be in good academic standing; second year students, 1.75; third year students, 1.90. Averages are computed at the completion of each semester.

DEANS' HONOR LIST

The Deans' Honor List is published at the termination of each semester. Those students who have a cumulative average of 3.4 are placed on the Deans' List. To be eligible for this list, a student must have complied with all the regulations of the College and must have earned 24 credits with letter grades A, B, C, or D at La Salle College.

While students on the Deans' List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the College's honors program.

ACADEMIC CENSURE

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

(a) *Probation*. A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he has satisfied the conditions for good academic standing.

(b) *Suspension*. This is involuntary separation of the student from the College for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the College.

(c) *Dismissal*. This is involuntary separation of the student from the College for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the College.

A student is liable to suspension or dismissal: (1) when he/she has attained a cumulative scholarship index (a) less than 1.00 after the freshman year, (b) less than 1.50 after the sophomore year, (c) less than 1.90 after the junior year or (2) when he/she is on probation for two successive semesters.

Decisions on Probation will be made following determination of grades after the Fall semester, and after the final La Salle summer session. Decisions on Suspension and Dismissal will be made following determination of grades after the final La Salle summer session.

CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly-enrolled students at La Salle College may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The student's index may be affected only if the credit is for a course previously taken at La Salle.

REQUIREMENTS FOR A DEGREE

Students are responsible for filing an application for degree with the Registrar one year before the expected date of graduation.

The candidate for a degree must have completed course work equivalent to a minimum of 120 semester hours. Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required hours, the student must:

(a) have obtained a C average or cumulative index of 2.00 in his prescribed program of studies,

(b) have fulfilled all course requirements prescribed for him by the chairman of the department in which he majored and approved by the dean of the school in which he is enrolled,

(c) have fulfilled the General Education and Distribution Requirements.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

Honors are computed on the basis of the work done for eight semesters.

WITHDRAWALS

A student who withdraws from the College must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the College are sent, at the request of the student, to other institutions and organizations. Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his transcript at the time of graduation. A fee of \$1.00 is charged for an official transcript. When several copies are requested at the same time, the fee is \$.50 for each additional copy. The College requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the College have been satisfactorily settled.



Arts & Sciences



DEGREE PROGRAMS

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, communications, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, geology, mathematics, physics, or psychology.

The School also offers programs designed as preparation for health professions, law, public administration, teaching, social work, and work in criminal justice.

Preparation for the Health Professions

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions: They are:

Chemistry	12-16 sem. hrs.
Physics	8 sem. hrs.
Biology	8 sem. hrs.
Mathematics	0-6 sem. hrs.

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant's full undergraduate record is scrutinized. The strong liberal arts component in the La Salle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards. Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions adviser concerning admissions criteria at various schools.

Preparation for Teaching

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in either the secondary schools or to teach mentally and/or physically handicapped students in the elementary and secondary schools of Pennsylvania. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, communications, English, French, German, Italian, Latin, mathematics, physics-mathematics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the College's requirements in these areas and are recommended by the Teacher Education Committee are issued teachers' certificates. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the education department, one faculty representative for each of the subject areas of teacher preparation, and student representatives in the teacher preparation program makes

final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. A Teacher Placement Office on campus aids graduates in obtaining positions.

TEACHER CERTIFICATION PROGRAMS AND ADVISERS:

(Teacher certification is obtainable only in these areas.)

English — Brother Lawrence Colhocker
Biology, Chemistry, Mathematics, Physics —
Brother Richard Hawley, Brother Hugh Albright
Communications (Non-print media) — Brother Gerard Molyneaux
Comprehensive Social Studies — Dr. Gary Clabaugh
French, German, Italian, Latin, Spanish — Dr. John McCann
Special Education of the Exceptional Child — Emotionally
Disturbed, Mentally Retarded, Physically Handicapped,
Learning Disabled, Brain Damaged —
Dr. Preston Feden

(Further details on the specific requirements in each of these areas are available in the education department office or from the appropriate adviser.)

Preparation for Law

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Law schools do not prescribe particular curricula for admissions. La Salle College, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

Any student considering law as a career, regardless of his major curriculum interest, is encouraged to seek early counseling with the pre-law adviser, Dr. Edward Domineske.

Preparation for Criminal Justice Professions

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole and correctional administration.

Preparation for Social Work

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory is acquired. The student explores the psychological, social, economic and political phenomena that impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of social functioning for the humanizing of institutions, and for the promotion of social change.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies. They are in such fields as child welfare, family services, aging and public

welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.

Students considering the social work major are encouraged to make this known to the Director of the Program for assistance in planning an academic course of study.

CURRICULUM

The curriculum for Arts and Sciences students has four parts:

1. General Education — 7 courses (21 credits)
2. Distribution Requirement — 8 courses (24 credits)
3. Departmental Requirements for Majors — ordinarily not more than 15 courses (45 credits)
4. Free Electives — minimum of 10 courses (30 credits)

The General Education courses, which will normally be completed by the end of sophomore year, concern themselves with the basic skill of written communication and with such value-oriented subjects as literature, religion, and philosophy. Each of these departments offers several courses which can be chosen to fulfill the General Education Requirement.

The range of choice is further widened by the Distribution Requirement, which is to be fulfilled by the end of junior year. Courses offered under this requirement help provide some depth outside your major field and also offer a measure of flexibility so that you can shape your program in accord with your interests.

The number of courses each department requires of its majors will normally not exceed 15, leaving at least 10 courses to be used as free electives. Some departments require their majors to take courses outside their primary field. Students may present such courses in fulfillment of Distribution Requirements.

The College recommends that students planning graduate studies acquire a good background in languages, since most graduate schools require a knowledge of one or two foreign languages before granting higher degrees.

GENERAL EDUCATION REQUIREMENTS (To be completed by end of sophomore year)

English Composition 1 semester

Literature 2 semesters

Philosophy 2 semesters

Religion 2 semesters

(May be waived if writing competence is established.)
(English or foreign literature in English).

DISTRIBUTION REQUIREMENTS (To be completed by end of junior year)

Two courses in four of the areas below, exclusive of courses in your major

Area I	Area II	Area III	Area IV	Area V
English	Foreign Languages*	Fine Arts	Economics	Biology
History	Mathematics	(Music or Art)	Pol. Science	Chemistry
		Philosophy	Sociology	Geology
		Religion	Psychology	Physics

General Education courses may not be taken to fulfill Distribution Requirements.

*To satisfy Distribution Requirements with Foreign Languages, the student must take two courses in the same foreign language.

MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions, beginning on page 45 of this catalog.

FREE ELECTIVES

A student may choose to concentrate his free electives in a particular discipline to build a strong minor or may use these electives to diversify his background or broaden his interests. Free electives may be taken on a pass/fail basis. (See GRADES, page 34.)

MODEL ROSTER FOR MAJORS IN ARTS AND SOCIAL SCIENCES

FRESHMAN YEAR

Fall	Spring
Gen. Ed. Phil A	Gen. Ed. Rel
Eng. Comp.	Dist. Req.
Gen. Ed. Lit.	Gen. Ed. Lit
Major Course	Major Course
Dist. Req.	Dist. Req.

JUNIOR YEAR

Fall	Spring
Dist. Req	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

SOPHOMORE YEAR

Gen. Ed. Rel.	Gen. Ed. Phil B
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

MODEL ROSTER FOR SCIENCE MAJORS

FRESHMAN YEAR

Comp.	Dist. Req.
Gen. Ed. Rel.	Gen. Ed. Phil.
Gen. Ed. Lit.	Gen. Ed. Lit.
Major Course	Major Course
Mathematics	Mathematics

JUNIOR YEAR

Dist. Req.	Dist. Req.
Dist. Req.	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective

SOPHOMORE YEAR

Gen. Ed. Phil	Gen. Ed. Rel.
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective
Elective	Elective

The above rosters illustrate ways in which the General Education Requirements, Distribution Requirements, Major Courses, and Electives might be scheduled over the four years.

Course Descriptions

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

Key: (F)—Offered in fall term; (S)—Offered in spring term; (F, S)—Course may be rostered in either fall or spring term. The year is indicated if the course is offered in alternate years.

D—Indicates that course is recommended by department to non-majors as suitable to fulfill a Distribution Requirement. If there is doubt about whether a course will fulfill the Distribution Requirement, the student should consult with the Dean.

ART HISTORY

(See Fine Arts.)

BIOLOGY*

BROTHER RICHARD HAWLEY, F.S.C., M.A., *Chairman*
Associate Professors: Belzer, Lowery, Mickle, Muldoon, Seitchik
Assistant Professors: Hawley, Ksiazek, O'Connor
Instructor: Benthin

Required for Major in Biology: 17 courses

- Biology 201, 202, 203, 407-408, and additional biology courses to total a minimum of 33 hours (Biology 301 is recommended by the department; sequence may be decided by the student.)
- Chemistry 111-112, 201-202
- Mathematics 113-120 (Biology 314 may be substituted if Mathematics 120 is taken as first course.)
- Physics 105-106

Biology 151-152.

ANATOMY AND PHYSIOLOGY

D

4-8 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Three hours lecture, two hours laboratory; two terms.

Biology 153. (F)

THE ANIMAL KINGDOM. FANTASY AND FACT

D

3 credits

For election in the distribution area by non-biology majors. A brief survey of the animal kingdom and its relationship to man. Consideration given to evolution, physiology, ecology, parasites, and genetics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

Biology 154. (S)

PLANTS: FLOWERING AND NON-FLOWERING

D

3 credits

For election in the distribution area by non-biology majors. A survey of the structure and metabolism of seed and non-seed plants. Consideration given to evolution, ecology, hormones, and basic systematics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

*Non-majors planning to elect biology courses above the 100 level must secure the permission of the chairman. Biology 201 is a prerequisite for all courses above the 200 level.

- Biology 155. (F)** **D**
 LIFE BEFORE BIRTH 3 credits
 For election in the distribution area for non-biology majors. Lecture, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.
- Biology 156. (S)** **D**
 VARIATION IN MAN 3 credits
 For election in the distribution area for non-biology majors. General principles of genetic transmission and their application to man. Discussion of currently developing procedures for genetic control which might have an impact on man, and of existing problems stemming from genetic transmission and chromosomal abnormality. Lecture, visuals, demonstrations, and student investigation. Three hours lecture, no laboratory.
- Biology 201. (F, S)** **D**
 THE LIVING ORGANISM 4 credits
 Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms, and their structure and communities. *Required of all biology majors; normally taken as first major course; may be waived for advanced standing.* Prerequisite: Chemistry 111-112. Three hours lecture, two hours laboratory.
- Biology 202. (F, S)** **D**
 THE INVERTEBRATES 4 credits
 Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.
- Biology 203. (F, S)** **D**
 THE PLANT KINGDOM 4 credits
 Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory. Prerequisite: Biology 201.
- Biology 251. (F, S)** **D**
 CLINICAL MICROBIOLOGY 3 credits
 The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Two hours lecture, two hours laboratory.
- Biology 301. (F, S)** **D**
 THE VERTEBRATES 4 credits
 Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.
- Biology 303. (F, S)** **D**
 MICROBIOLOGY 3 credits
 A lecture-laboratory course concerned with the role of micro-organisms in nature and especially in human affairs. Two hours lecture, two hours laboratory; one term.
- Biology 305. (F)** **D**
 GENERAL PHYSIOLOGY 3 credits
 Metabolic processes and associated physico-chemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Two hours lecture, two hours laboratory.

- Biology 306. (S)**
NEUROMUSCULAR PHYSIOLOGY 3 credits
 A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. Two hours lecture, two hours laboratory.
- Biology 308. (S)**
MICROTECHNIQUE 3 credits
 Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, four hours laboratory.
- Biology 310. (S)**
GENETICS 3 credits
 Mendel's laws of heredity as observed in plants and animals, the scope and method of modern genetics. Two hours lecture, two hours laboratory.
- Biology 312. (F)**
RADIOBIOLOGY 3 credits
 Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. Two hours lecture, two hours laboratory.
- Biology 314. (S)**
BIOMETRICS 3 credits
 Analysis of experiments and research data in quantitative biology. Probability distributions, analysis of variance, rectilinear and curvilinear regression, and correlation. Three hours lecture, one hour laboratory.
- Biology 315. (S)**
PLANT PHYSIOLOGY 3 credits
 Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. Offered in the spring semester of odd-numbered years.
- Biology 316. (S)**
PLANT ANATOMY 3 credits
 Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. This course is offered in the spring semester of even-numbered years.
- Biology 318. (F)**
EVOLUTION AND POPULATION GENETICS 3 credits
 A presentation and analysis of the evidence for the evolution of life. Major topics include the origin of life and cellular organelles as well as the development of the diversity of life present today. Heavy emphasis on the ideas of Charles Darwin as expanded and modified by evidence from modern population genetics, cytogenetics and molecular biology. Offered in fall term of odd-numbered years.
- Biology 401. (F)**
TAXONOMY OF THE ANGIOSPERMS 3 credits
 Angiosperm systematics, field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics, and importance of the leading families of flowering plants. Offered in fall term of even-numbered years. Two hours lecture, two hours laboratory.

Biology 402. (F)**CELL BIOLOGY**

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory.

Biology 403. (F)**PRINCIPLES OF ECOLOGY**

3 credits

Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior, and community organization of organisms. Three hours lecture with field observations.

Biology 404. (S)**FIELD ECOLOGY**

3 credits

Project laboratory at La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: Biology 403. Six hours laboratory and field work.

Biology 405. (F, S)**HISTOLOGY**

4 credits

The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Two hours lecture, four hours laboratory.

Biology 406. (F, S)**EMBRYOLOGY**

3 credits

Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and human form the basis of instruction. Two hours lecture, two hours laboratory.

Biology 407-408.**BIOLOGICAL CHEMISTRY**

4-8 credits

The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences, the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory; two terms.

Biology 470. (F, S)**SPECIAL TOPICS IN BIOLOGY**

3 credits

Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.

Biology 480-481. (F, S)**BIOLOGICAL RESEARCH**

2-4 credits

For election, particularly by qualified students contemplating postgraduate studies. Intended to provide actual research experience under staff supervision. Permission of chairman required. Hours to be arranged.

CHEMISTRY

THOMAS S. STRAUB, Ph D., *Chairman*

Professors. Barth, Demitras

Associate Professors: Shalhoub, Straub, Tekel

Assistant Professor. Sowers

Lecturer: Polek

Required for Major in Chemistry: 15 courses

- Chemistry 111-112, 201-202, 301-302, 305, 401, 402, 403
- Mathematics 120, 221, 222 (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)

- Physics 105-106 (Physics 211 is excellent preparation for Chemistry 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work, Computer Science 150, 153 or a reading knowledge of a foreign language, some advanced work in chemistry (normally Chemistry 308 or 470), and some research experience are recommended. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

Chemistry 111-112.

GENERAL CHEMISTRY

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory stresses the quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

Chemistry 151. (F)

D

CHEMISTRY OF THE LIFE SCIENCES

4 credits

A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

Chemistry 170-171. (F, S)

D

SPECIAL TOPICS

3-6 credits

Courses of general interest for students not intending to major in a physical science.

Chemistry 201-202.

ORGANIC CHEMISTRY

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: Chemistry 111-112. Three hours lecture, three hours laboratory; two terms.

Chemistry 301-302.

PHYSICAL CHEMISTRY

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 201-202, Mathematics 221-222. Three hours lecture, three hours laboratory; two terms.

Chemistry 305. (F)

QUANTITATIVE ANALYSIS

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Three hours lecture, three hours laboratory.

Chemistry 306. (S)

QUANTUM CHEMISTRY

2 credits

Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics. Prerequisites: Chemistry 301-302.

Chemistry 308. (S)**BIOCHEMISTRY**

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisites: Chemistry 201-202, 301. Three hours lecture, three hours laboratory.

Chemistry 361. (F, S, Summer)**COOPERATIVE CHEMICAL EDUCATION**

3 credits

A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the chairman only.

Chemistry 401. (F)**QUALITATIVE ORGANIC ANALYSIS**

4 credits

A study of the classifying reactions of organic compounds as exemplified by the analysis of compounds and mixtures in the laboratory. *Restricted to chemistry majors.* Prerequisites: Chemistry 201-202. Eight hours of laboratory per week and individual conferences.

Chemistry 402. (S)**ADVANCED QUANTITATIVE ANALYSIS**

4 credits

Theory and practice of physical measuring instruments with particular attention to the use of the instruments. Modern trends in analytical chemistry. Prerequisites: Chemistry 301, 302, 305. Two hours lecture, six hours laboratory.

Chemistry 403. (F)**ADVANCED INORGANIC CHEMISTRY**

3 credits

The vector model of the atom, theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals and their complexions. Prerequisites: Chemistry 201-202, 301-302.

Chemistry 404. (S)**ADVANCED ORGANIC TOPICS**

3 credits

Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: Chemistry 201-202, 301. Three hours of lecture.

Chemistry 470. (F, S)**SPECIAL TOPICS**

3 credits

Courses in "Polymers and Polymer Coatings" and in "Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.

Chemistry 480 and/or 481. (F, S)**CHEMICAL RESEARCH**

4-8 credits

Individual laboratory or theoretical work under supervision of a staff member. *Restricted to chemistry majors.* Hours to be arranged.

COMMUNICATIONS

(See English and Communication Arts.)

COMPUTER SCIENCE

(See Mathematical Sciences.)

CRIMINAL JUSTICE

(See Sociology.)

ECONOMICS

JOSEPH P. MOONEY, Ph.D., *Chairman*
Professors: Ciesla, Flubacher, Kane, Mooney
Associate Professors: Duffy, Geruson, Grady
Assistant Professors: Cairo, George, Ratkus

Required for Major in Economics: 15 courses

- Economics 101-102, 201, 203, 213, 214, 303, 304, 411, 412, 480
- Mathematics 111-112
- Two courses in the social sciences (psychology, political science, or sociology).

Economics 101. (F) D INTRODUCTORY ECONOMICS I 3 credits

A study of the operation of the economic system, including a comparison of capitalistic and socialistic economies and consideration of the influence of government policies on economic activity. Emphasis on the U.S. economy and factors which determine employment, inflation, gross national product, and the money supply. A prerequisite for other economics courses except Economics 230, 320, 411, 412.

Economics 102. (S) D INTRODUCTORY ECONOMICS II 3 credits

A continuation of Economics 101. Topics include: economic problems of the business firm; economic growth of society; urban problems associated with economic growth; economic approaches to ecological issues; international trade issues; economic problems of poor countries. Prerequisite: Economics 101.

Economics 201. (F) 3 credits MONETARY ECONOMICS

A study of the monetary and financial system of the U.S. economy. Emphasis on the importance of the money supply, the demand for money, and interest rates, along with more recent developments in the study of monetary variables. Instruments of monetary policy discussed and evaluated in the context of contemporary economic theory; the position of the American financial system in the international financial network. Prerequisites: Economics 101, 102.

Economics 203. (S) 3 credits AMERICAN ECONOMIC HISTORY

History of the growth and development of the economic institutions of the United States from the Age of Discovery to the New Deal and their influences on political and social organizations.

Economics 213. (F, S) 3 credits ECONOMICS AND BUSINESS STATISTICS I

General introduction to the basic ideas and procedures of statistical analysis with special emphasis on their application to economics and business. Methods of statistical description, index numbers, and time series analyses. Introduction to statistical inference using the normal probability distribution. Prerequisites: Economics 101, 102.

Economics 214. (S) 3 credits ECONOMICS AND BUSINESS STATISTICS II

Foundations of statistical inference as applied to decision making on the basis of limited information. Basic concepts of probability, probability distributions, estimation and test of hypotheses, regression and correlation techniques. Prerequisite: Economics 213.

Economics 230. (S) 3 credits THIRD WORLD POVERTY AND ECONOMIC DEVELOPMENT

An analysis of the causes of poverty in underdeveloped countries. Theories of development and policies to promote development emphasized. Social, political, cultural factors, and relations with rich countries also treated.

Economics 301. (F, S)**LABOR PROBLEMS IN AMERICA**

3 credits

Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economic, political, and social power, as well as to the problems involved in the use of this power; management rights and management reaction to unions are also treated. Prerequisites: Economics 101, 102. Identical with Relations 301

Economics 302. (F, S)**MANAGERIAL ECONOMICS**

3 credits

Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting. The process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: Economics 101-102; Mathematics 111-112 and Quantitative Analysis 213.

Economics 303. (F)**INTERMEDIATE MICRO THEORY I: PRICE THEORY**

4 credits

Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: Economics 101, 102.

Economics 304. (S)**INTERMEDIATE MACRO THEORY II: THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS**

4 credits

Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: Economics 101, 102.

Economics/Political Science 320. (F)**INTRODUCTION TO URBAN STUDIES****D**

3 credits

Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science.

Economics/Political Science 321. (S)**SEMINAR IN URBAN STUDIES****D**

3 credits

Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation, and selected other areas examined. Includes evaluation of limits, directions, and mix of government and private sectors. Prerequisites: 6 hours of social science.

Economics 404. (S)**PUBLIC FINANCE**

3 credits

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Prerequisites: Economics 101, 102.

Economics 411. (F)**HISTORY OF ECONOMIC THOUGHT****D**

3 credits

A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.

Economics 412. (S)**CONTEMPORARY ECONOMIC SYSTEMS****D**

3 credits

A continuation of Economics 411 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.

Economics 431. (F)**INTERNATIONAL ECONOMICS**

3 credits

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisites: Economics 101, 102.

Economics 470. (S)**SPECIAL TOPICS**

3 credits

Concentration on a particular aspect of economic theory or economic issues. Topics will vary according to student interest and availability of faculty.

Economics 480. (F, S)**SEMINAR**

3 credits

A study of methodology in economics and of the techniques of preparing research reports.

EDUCATION

ROBERT VOGEL, Ed.D., *Chairman*

PRESTON FEDEN, Ed.D., *Director of Special Education*

LAWRENCE COLHOCKER, F.S.C., M. A., *Director of Secondary Education*

Associate Professors: Bangs, Binkowski, Clabaugh, Feden, Lambert

Assistant Professors: McCormick, Vogel

Instructor: Colhocker

57**Major in Education:**

La Salle College offers majors in Secondary and Special Education. Majors in Elementary Education and Business Education are offered in cooperation with Chestnut Hill College and St. Joseph's University respectively. All education majors who successfully complete the required sequence of courses and the baccalaureate degree will be issued, upon recommendation of La Salle College and the Education department faculty, a Pennsylvania Instructional I Certificate in their major subject or area of concentration (i.e. English, special education, etc.).

Before being accepted into the Professional Semester (Secondary Education majors) or The Professional Year (Special Education majors), students must have an overall index of 2.0 and an index of 2.5 or better in the associated major (English, mathematics, special education) and all education course work. Students must receive approval by the Teacher Education Committee before beginning student teaching. Recommendations are predicated upon successful completion of all course requirements and on the fitness of the individual for the professional position he or she has selected. All students must meet certain physical and medical standards to obtain an Instructional I Certificate to teach in the public schools of Pennsylvania. It is strongly recommended that all candidates for teacher certification take the national teacher examinations (NTE's) since some school districts require these examinations as a condition for employment.

Students not majoring in education are invited to register for education courses that carry no prerequisites. (See chairman for more information.)

Requirements for Major in Secondary Education:

- Education 201, 203, 301, 470-471-472
- Psychology 101
- Courses designated for associated major (See Education Department brochure and area advisers for specific courses.)

La Salle College offers a program of studies that is approved by the Pennsylvania Department of Education and leads to Instructional I certification in Comprehensive Social Studies, Communi-

cations (Non-print media), English, Biology, Chemistry, Mathematics, Physics, French, German, Italian, Latin and Spanish. Application for admission into the teacher preparation program is normally made during the freshman year. Application forms may be obtained from the department office (0-254). For further information, see Brother Lawrence Colhocker, Director of Secondary Education.

Requirements for Major in Special Education:

- Education 141, 201, 203, 241, 301, 304, 343, 344, 475-476
- Psychology 101 and two of the following:
Psychology 203, 206, 315, 406, 408
- Biology 155

La Salle College offers a program of studies that is approved by the Pennsylvania Department of Education and leads to Instructional I certification as Teacher of the Mentally and/or Physically Handicapped, K-12. This certificate enables successful graduates to teach severely/profoundly, trainable, and educable mentally retarded children; emotionally disturbed children; learning disabled children; and physically handicapped children.

Students are expected to roster Education 201, Education 141, and Psychology 101 during the freshman year. All special education students must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification.

For further information, see Dr. Preston Feden, Director of Special Education.

Requirements for Major in Elementary Education and Business Education:

See chairperson of Education Department.

Religion-Education

This program has been designed for those students who wish to teach religion in the secondary school. Since religion is not an accredited subject in any state, no Pennsylvania Instructional Certificate can be issued.

Courses required:

- Education 203, 301, 470-471-472
- Courses designated by the Religion Department

Education 141. (F, S)

INTRODUCTION TO EXCEPTIONAL CHILDREN

3 credits

The psychology and education of exceptional children and terminology related to the following exceptionalities: physically handicapped, mentally retarded, emotionally disturbed, learning disabled, speech handicapped, visually handicapped, auditorally handicapped, and gifted. Observations of special education programs and facilities will be required.

Education 201. (F, S)

THE SCHOOL: EDUCATION IN PHILOSOPHICAL AND CULTURAL PERSPECTIVE

3 credits

Analysis of relationship between organizational structure and educational policies of American schooling and the broader society

Education 203. (F, S)

THE LEARNER: EDUCATIONAL PSYCHOLOGY

D

3 credits

Study of psychological principles as they apply to the pupil and the learning process. Emphasis on practical applications of cognitive, moral, and social development theories as they relate to

learners of all ages in both formal and informal educational settings. Topics include: learning theory, retention and transfer, individual differences, goal setting, educational measurement and statistics, assessment, and evaluation. Field experiences required. Prerequisite: Psychology 101.

Education 241. (F, S)

EARLY EXPERIENCE WITH EXCEPTIONAL CHILDREN

3 credits

Provides the prospective special education major with early exposure to exceptional children and professionals practicing in the field. Students spend the semester working four to six hours a week with a variety of exceptional persons. A two-hour seminar will be conducted each week on campus. Prerequisite: Education 141.

Education 301. (F, S)

THE TEACHER. STUDY OF TEACHING

3 credits

The study of teaching skills. Includes simulations, micro-teaching, interaction analysis. Prerequisites: field experience in education, Education 201, 203.

Education 302. (F, S)

EDUCATIONAL MEDIA

3 credits

Application of appropriate media formats in educational and business instructional settings. Design, production, and use of overhead transparencies; still photography; drymounting materials; audiotapes; multimedia presentations; and television programs. Examination of impact of computers in education.

Education 304. (F, S)

DEVELOPMENTAL READING

3 credits

A competency based experience to help students planning teaching careers recognize and deal with the various problems encountered in teaching reading. Emphasis on evaluation of and planning for the development of basic reading skills in children and adolescents. Field experience required. Prerequisite: Education 203.

Education 330. (F, S)

THE EDUCATION OF URBAN POPULATIONS

3 credits

A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education. Team taught. Identical with Political Science 330.

Education 343. (F)

CURRICULUM ADJUSTMENT

3 credits

This course is broad in scope and content, and focus is on the students developing their own ideas about special education by understanding current issues, approaches to teaching exceptional children, and the relationship of theory to practice. Helps the students adjust the school curricula to the needs of exceptional children. Tutorial work with a child or children who exhibit learning problems is required (Two hours a week.) Prerequisites: Education 141, 203, 241.

Education 344. (S)

DIAGNOSIS AND CORRECTION OF LEARNING PROBLEMS

3 credits

The student will learn about current theories of perceptual-motor, language, cognitive, academic, and social development. Based on this knowledge, students will assess a child's needs, plan and evaluate remedial programs based on the needs of children with learning problems. Tutorial work with a child or with children who exhibit learning problems is required. (Two hours a week.) Prerequisites: Education 141, 203, 241, 343.

Education 470-471-472. (S)

THE PROFESSIONAL SEMESTER

15 credits

Affords education majors specific and general preparation for student-teaching experiences. Comprises one full semester and embodies instruction in Special Methods of Teaching in various

disciplines; direct application of educational media, methods, and materials to teaching; seminars in developmental reading, and ten to twelve weeks full-time assignment to classroom observation and teaching in selected secondary schools.

The Professional Semester requires the student to participate on a five-day-a-week, full-day schedule. Prerequisites: field experience in education, Education 201, 203, 301 and approval of associated major and education department chairpersons.

Education 475. (F, S)

THE PROFESSIONAL YEAR — STUDENT TEACHING

18 credits

Students practice teach for an entire academic year. Three ten-week teaching experiences involve work with children who are labeled mentally retarded, physically handicapped, and learning disabled/emotionally disturbed. In addition, each ten-week experience is with children of different chronological ages and varying levels of severity of handicaps. Prerequisites: 90 credit hours, completion of all courses required for major, 2.5 average in major requirements, and approval of the faculty committee.

Education 476. (F, S)

THE PROFESSIONAL YEAR — METHODS

12 credits

Weekly seminars held both on campus and in practicum sites to help students translate theory into practice by exploring teaching methods in content areas. Methods for teaching reading, math, and other subjects to exceptional children are studied. Classroom management techniques are explored. In addition, special workshops on Career and Vocational Education, Special Education Law, First Aid, and other important and current topics are offered. Taken concurrently with Education 475. Prerequisite: Acceptance into Education 475.

Education 482. (S)

AN INTRODUCTION TO GEOGRAPHY

3 credits

An examination of our physical world. The course emphasizes and accounts for regional differences and highlights the relationship between man and his physical environment. Required for majors in Comprehensive Social Studies; open to non-majors.

ENGLISH AND COMMUNICATION ARTS

JOHN J. KEENAN, M.A., *Chairman*

JAMES A. BUTLER, Ph.D., *Assistant Chairman*

GERARD MOLYNEAUX, F.S.C., Ph.D., *Assistant Chairman, Communication Arts*

Professors: Burke, Butler, Ellis, Fallon, Keenan, Kelly, Koch, Seydow

Associate Professors: Doran, Haberstroh, Hannum, Kleis, Lautz, Millard,

Mollenhauer, Molyneaux, Musil, Newton, Thornton

Assistant Professors: Allen, Barchak, Foote, Goedkoop, Harty,

MacLeod, Rao, Soven, Wine

Instructor: Kling

Lecturers: Lyons, Meredith

Required for Majors in English: 15 courses (Dual Majors: 10 courses)

English majors may choose one of several "majors within the major": (1) Liberal Arts; (2) English-Education; (3) Writing; (4) Dual Majors, e.g., English-Accounting, English-Biology, English-Psychology.

The usual requirements for each program are as follows: (Exceptions require the approval of the chairman or assistant chairman.)

- **Liberal Arts:** English 201. English 202. Either English 311, 312, or 313. English 221-222. Either English 341, 342, or 343. Three period courses (322 through 332). English 325. Either English 301, 302, 304, 401, or 402. Four English electives (not to include English 256 or any 160-level course).

- **English-Education:** English 103, 201, 202, 215, 221, 222, 225 or 325, 252 or 254, 300, 304, 341, 342, and one advanced writing course (English 104, 205, 206, 207, 208, 305, 306, 307, 308). Education 201, 203, 301, 304, 470-472.
- **Writing:** English 103, 201 or 202, 205, 221-222, one contemporary course (either 311, 312, or 313), 325, 401 or 402, four writing courses (choices include English 206, 207, 208, 300, 305, 306, 307, 308, 310, 353). Three English electives (not to include English 256 or any 160-level course).
- **Dual Major:** Individual program to be worked out in consultation with the chairman.

Required for Majors in Communication Arts: 15 courses

- English 206, 256, 257, 258, 259, 356, 357, 358, 403, 404
- Four English electives (excluding: 160-level courses, English 250-251, 300, 310, 353, 355, 461)

GENERAL EDUCATION

English 101. (F, S)

WRITING I

3 credits

Designed to train students to write correct, effective, and interesting prose. Individual conferences and regular writing assignments to encourage practice in each step of the writing process.

Fall Semester

English 161. (F)

THE EXPERIENCE OF LITERATURE 3 credits

An examination of selected fiction, poetry, and drama, and the way in which the form of a work interacts with its content. Imaginative literature to encourage the student to read with increased taste, perception, and pleasure. Short critical papers.

English 164. (F)

WORKS OF MAJOR AUTHORS 3 credits

An introduction to the works of several major figures who, because of their timeless appeal, have continued to attract and excite readers through the centuries. Readings will include such figures as: Chaucer, Shakespeare, Milton, Swift, Keats, Austen, Melville, Eliot, Frost, Woolf, and Faulkner. Short critical papers.

Spring Semester

English 160. (S)

LITERATURE AND THE SEXES 3 credits

Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

English 165. (S)

LITERATURE AND SOCIETY 3 credits

Fiction, poetry, and drama considered as reflections of a particular social and political environment. The relationship between the art work and the intellectual and cultural background that produced it. Short critical papers.

English 166. (S)

AMERICAN DREAMS, AMERICAN NIGHTMARES 3 credits

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

SECTION I: GENRE COURSES

Ia. INTRODUCTORY COURSES

English 103. (F, S) **D**
 INTRODUCTION TO SHORT FICTION 3 credits

Reading, analysis, and discussion of short fiction.

English 201. (F, S) **D**
 INTRODUCTION TO POETRY 3 credits

A study of the uses of language in English poetry — meter, metaphor, symbol, and other linguistic features — and of the major conventional forms of English poetry.

English 202. (F, S) **D**
 INTRODUCTION TO DRAMA 3 credits

A survey of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th century.

Ib. CONTEMPORARY COURSES

English 311. (S) **D**
 CONTEMPORARY BRITISH AND AMERICAN NOVEL 3 credits

Selected major novelists of the 20th century in England and America. Structure and trends.

English 312. (F) **D**
 READINGS IN MODERN DRAMA 3 credits

Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.

English 313. (F) **D**
 CONTEMPORARY POETRY 3 credits

An examination of representative 20th century poetic practice in English.

SECTION II: ENGLISH AND AMERICAN LITERATURE COURSES

IIa. ENGLISH SURVEY COURSES

English 221-222. (F, S) **D**
 THE LITERATURE OF ENGLAND 3-6 credits

Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

IIb. AMERICAN SURVEY COURSES

English 341. (F) **D**
 AMERICAN LITERATURE (to 1860) 3 credits

Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

English 342. (S) **D**
 AMERICAN LITERATURE (1860-1900) 3 credits

Rise of realism; naturalism. Figures include Twain, Dickinson, Howells, James, Wharton, Crane, and Dreiser.

English 343. (F, S) **D**
 AMERICAN LITERATURE: 20th CENTURY 3 credits

Survey of developments in poetry, fiction, and criticism; figures include Hemingway, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, Porter, and selected contemporary writers.

IIc. ENGLISH PERIOD COURSES

English 322. (S)

CHAUCER AND HIS WORLD

3 credits

Readings in *The Canterbury Tales*: short selections from medieval drama, romance, and allegory.

English 323. (F)

RENAISSANCE LITERATURE

3 credits

The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli, Shakespeare, Donne, Bacon, and Milton.

English 326. (S 1984)

MILTON IN AN AGE OF REVOLUTION

3 credits

The works of the great English poet as they reflect the conflicting values of the Renaissance and Reformation, presented against a backdrop of Civil War and the short-lived English Republic.

English 327. (S)

ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY

3 credits

The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.

English 328. (F)

THE ENGLISH NOVEL TO 1900

3 credits

The roots of modern fiction. Historical development of the novel from Defoe to Hardy. Analysis of structures and themes.

English 329. (S)

ENGLISH LITERATURE OF THE ROMANTIC PERIOD

3 credits

An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.

English 330. (F 1983)

ENGLISH LITERATURE OF THE VICTORIAN PERIOD

3 credits

The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.

English 332. (F 1983)

MODERN BRITISH LITERATURE

3 credits

Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.

IIId. SHAKESPEARE COURSES

English 225. (F, S)

SHAKESPEARE'S ART AND TIMES

3 credits

Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed with the non-English major in mind.

English 325. (F, S)

SHAKESPEARE

3 credits

Intensive study of selected poems and plays, including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.

SECTION III: LINGUISTICS COURSES

- English 210. (S)** **D**
 LANGUAGE AND PREJUDICE 3 credits
 A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.
- English 301. (F)** **D**
 HISTORY OF THE ENGLISH LANGUAGE 3 credits
 Development of modern English from Old and Middle English; dialects and dialect geography.
- English 302. (F)** **D**
 INTRODUCTION TO LINGUISTICS 3 credits
 Nature of language; methods of linguistic analysis. Social and cultural background of language.
- English 304. (S)** **D**
 THE GRAMMARS OF ENGLISH 3 credits
 History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.

SECTION IV: LITERARY CRITICISM COURSES

- English 401. (S)** **D**
 LITERARY THEORY AND CRITICISM 3 credits
 An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.
- English 402. (F)** **D**
 HISTORY OF LITERARY CRITICISM 3 credits
 Readings and discussion of major critical texts in historical setting. Short critical papers.

SPECIAL TOPICS COURSES

- English 204. (F, S)** **D**
 WOMEN AND LITERATURE 3 credits
 Examines the ways in which women have been represented in British and American literature, exploring the cultural and historical origins of those representations.
- English 215. (S)** **D**
 ADOLESCENT LITERATURE 3 credits
 Aimed at preparing prospective or actual teachers, librarians, and parents to direct the reading of adolescents. Some attention to myth, folklore, and the best in contemporary, popular, non-sexist, and minority literature for students at junior and senior high school level. Bibliographic aids.
- English 243. (F, S)** **D**
 RELIGIOUS ATTITUDES IN MODERN LITERATURE 3 credits
 Identical with Religion 243.
- English 250-251.** **D**
 DRAMA WORKSHOP 3 credits
 Theory and practice in the arts of acting and directing for the theatre; brief historical perspectives and graduated individual and/or group work on speeches and scenes; specific assignments and projects designed to meet the needs of the beginning or advanced student. May be repeated for credit.

English 252. (F 1983)**ORAL INTERPRETATION OF PROSE AND POETRY**

3 credits

Theory and practice in the training of the speaking voice for the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works

English 254. (F, S)**ORAL COMMUNICATION**

3 credits

Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience.

English 255. (S)**THEATRE NOW****D**

3 credits

Study of genres and trends in contemporary theatre.

English 314. (S)**WOMEN WRITERS****D**

3 credits

Examines literature by women in relation to cultural, historical, and biographical origins, and in relation to specific traditions of women's writing in poetry, fiction, and drama.

WRITING COURSES**English 104. (F, S)****WRITING IN THE ARTS AND SCIENCES**

3 credits

A course for those who want additional instruction and experience in writing. Emphasis on writing papers according to the forms required in the social sciences, humanities, and physical sciences; reading selections drawn from these fields. Individual conferences. Prerequisite: English 101.

English 205. (F, S)**HOW A WRITER WORKS**

3 credits

A course that permits students to develop talent in various kinds of writing: essays, articles, reviews. Attention to a writer's methods and resources. Prerequisite: English 101.

English 206. (F, S)**FUNDAMENTALS OF JOURNALISM**

3 credits

Reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.

English 207-305-306. (F, S)**CREATIVE WRITING I, II, & III**

3 credits per term

Workshops in the writing of fiction and verse. Prerequisite for English 207: English 205 or permission of instructor. Prerequisite for English 305 or 306: permission of instructor.

English 208. (F, S)**WRITING FOR BUSINESS**

3 credits

Provides instruction in planning and executing effective business writing. Students learn to write the documents required of them as professionals: letters, resumes, memos, proposals, abstracts, and reports. Prerequisites: English 101, junior or senior status.

English 300. (F)**PROFESSIONAL SKILLS IN ENGLISH**

3 credits

A course primarily in the teaching of writing which includes a review of the principles of spelling and grammar, literary terminology, and critical procedures. Practicum in writing instruction (or tutoring) required. Prerequisite: English 101 or equivalent.

English 307. (S)**PLAYWRITING**

3 credits

Study of the art of the playwright from the traditional and contemporary point of view. Guided writing of a one-act play.

English 308. (F)**PROFESSIONAL WRITING**

3-6 credits

Directed practice in writing feature articles, speeches, public relations materials, advertisements, pamphlets, and brochures. Intended for students interested in careers as professional writers for business and industry, either on an in-company or freelance basis. Prerequisite: English 205 or permission of instructor.

English 310.**PUBLISHING**

3 credits

Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.

COMMUNICATION ARTS COURSES**English 256. (F, S)****DYNAMICS OF COMMUNICATION**

3 credits

Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.

English 257. (F, S)**INTRODUCTION TO MASS MEDIA**

3 credits

Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of the medium on content. Internal and external efforts at regulation.

English 258. (F)**MEDIA: DESIGN AND PRODUCTION**

3 credits

Analysis and production of visual communication through still photography, television, and film to develop skills in perception and composition of visual communication.

English 259. (F, S)**FILM AS ART****D**

3 credits

A study of selected films and discussion of the artistic techniques involved.

English 353. (F, S)**WRITING FOR THE MEDIA**

3 credits

Development of writing techniques responsive to the demands of print and non-print media. Analysis of the writing styles found in documentary reporting, advertising, and entertainment formats of the media. Fall: news writing and advertising copy; spring: script writing. May be taken in Fall, Spring, or both.

English 355.**RADIO PRODUCTION**

3 credits

Introduces students to the fundamental theories and practices of radio production. Topics include: arranging the programming day; scripting news, dramatic and commercial presentations; training of personnel for actual programming. Prerequisite: English 258.

English 356. (F, S)**TELEVISION PRODUCTION**

3 credits

Introduction to the planning, production, and editing methods of electronic communication. Includes pre-production scripting and participation in production of videotaped television shows. Prerequisite: English 258.

English 357. (S)
BROADCASTING IN AMERICA

3 credits

A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: English 257.

English 358. (F, S)
ADVERTISING AND PUBLIC RELATIONS PRACTICES

3 credits

A study of advertising and public relations from concept and development through production and evaluation. Analysis of the specific dynamics: research, creativity, administration, economics. Lectures, group projects, laboratory experiences. Required of majors; open to others with permission of chairman.

English 403. (S)
COMMUNICATION SEMINAR: FILM

3 credits

The motion picture as industry, as historical record, and as art. Among topics offered: documentary film, film comedy in America, film theory and criticism, film history, the great directors. Prerequisite: English 259 or permission of instructor.

English 404. (F)
COMMUNICATION SEMINAR: RADIO AND TELEVISION

3 credits

In-depth studies of particular facets of radio and television such as broadcast regulation, radio and television directing, satellite communication, the cable. Prerequisite: English 357 or permission of instructor.

English 461. (F, S)
FIELD SEMINAR IN MEDIA

3 credits

Students will intern 10-14 hours weekly in media-related companies, studying under professional guidance the everyday practices in communications industries. Recommendation of assistant chairman for communication arts required.



FINE ARTS

GEORGE K. DIEHL, Ph.D., *Chairman*

Professor: Diehl

Associate Professor: White

Assistant Professors: Hanes, Lang, Ridington

Lecturer: Kram

Director, Collegium Musicum: Woods

Required for Major in Art History: 13 courses

- Art 211-212, 311, 312, 313, 315, 411, 412, 470
- Any two studio courses. (Additional studio courses available at Chestnut Hill College.)
- Two art history electives

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. Those anticipating graduate work are also advised to select courses in German, French, Italian, Latin, and Greek as preparation for advanced studies. The art history major is to consider Art 211-212 as prerequisite for other art history courses.



ART

Art 101. (F, S) **D**
ELEMENTS OF ART 3 credits

Analysis of the elements of painting, sculpture, and architecture, application of principles to several major artists and to the major stylistic periods. Ideally suited to the general student as an introductory course.

ART HISTORY

For the general student, courses in art history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

Art 204. **D**
HISTORY OF ARCHITECTURE 3 credits

Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times.

Art 206. **D**
PAINTING FROM DAVID TO VAN GOGH 3 credits

Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

Art 207-208. **D**
ORIENTAL ART 3-6 credits

Development and growth of the visual arts in Asia from prehistoric times to the present. The movement of art styles across the Asian continent. Fall term: India, Sri Lanka, Southeast Asia. Spring term: China, Korea, Japan.

Art 209. **D**
AMERICAN ART 3 credits

Chronological survey of the painting, sculpture, architecture, and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.

Art 211-212. (F, S) **D**
HISTORY OF ART 3-6 credits

Chronological survey of the painting, sculpture, architecture, and minor arts of Western civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1500. Spring term: 1500 to present.

Art 311. **D**
ANCIENT ART 3 credits

Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.

Art 312. **D**
MEDIEVAL ART 3 credits

Chronological study of the eastern and western aspects of Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.

Art 313. **D**
THE RENAISSANCE IN ITALY 3 credits

A study of the civilization of the Renaissance with concentration on the architecture, painting, and sculpture of Italy between 1200 and 1550. Stress will be on the works of Giotto, Bramante, Michelangelo, Raphael, Leonardo da Vinci, and Titian.

- Art 314.** **D**
THE RENAISSANCE IN THE NORTH FROM VAN EYCK TO HOLBEIN 3 credits
 A study of 15th and 16th century art and architecture in the countries of Europe other than Italy. Starting with Northern manuscript illuminators working in Paris and ending with Northern mannerists, the course concentrates upon such artists as Jan van Eyck, Bosch, Dürer, and Holbein.
- Art 315. (F)** **D**
BAROQUE AND ROCOCO ART 3 credits
 A study of styles, trends, and major forces in the arts of Western Europe in the 17th and 18th centuries.
- Art 377. (S)** **D**
HISTORY OF GRAPHIC ART 3 credits
 Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the La Salle Study Collection and the Philadelphia Museum of Art. Prerequisite: permission of instructor. Written research project.
- Art 411.** **D**
NINETEENTH CENTURY ART 3 credits
 A study of the major artistic forces in selected European countries and their reaction to the Social and Industrial Revolutions. The course will include an investigation of the effect of these developments upon artistic forms in the United States.
- Art 412.** **D**
TWENTIETH CENTURY ART 3 credits
 A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.
- Art 470.** **D**
RESEARCH TOPICS IN ART HISTORY 3 credits
 Topics vary from semester to semester. Required of art history major and open to the qualified general student. Prerequisites: junior standing and permission of instructor.
- Art 489.** **D**
INDEPENDENT STUDY 3 credits
 Intensive study in a specific area under individual guidance. Open only to art history majors. Prerequisites: 3.00 average or better, recommendations of instructor, approval of department chairman.

STUDIO COURSES

- Art 350. (F, S)** **D**
OIL PAINTING 3 credits
 Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting. May be repeated for credit.
- Art 352. (F, S)** **D**
PRINT MAKING 3 credits
 Introduction to basic print processes. Relief and intaglio printing and lithography. May be repeated for credit.

MUSIC

Required for Major in Music: 12 courses

- In Music History: 203-204 and four additional courses from the Music History section.
- In Theory and Composition: 103-104, 314-315, 325, 413

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: Music 103-104 as prerequisite for other courses in theory and composition; Music 203-204 as prerequisite for other courses in music history. Students who feel qualified to take a placement examination in Music 103-104 may arrange to do so.

Music 101. (F, S)

THE ART OF LISTENING

D

3 credits

Designed to develop and refine musical perception and systematically to explore the fundamentals of music and their interrelationships. Includes historical overview. Ideally suited to the general student as an introductory course.



MUSIC HISTORY

For the general student, courses in music history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

Music 102. **D**
AMERICA'S MUSIC 3 credits

From Plymouth Rock to Woodstock — the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

Music 201. **D**
INTRODUCTION TO OPERA 3 credits

Music for the operatic stage from its inception to the contemporary period. Concentrated study of selected works representing the stylistic and historical development of opera.

Music 203-204. (F, S) **D**
INTRODUCTION TO THE HISTORY OF MUSIC 3-6 credits

After a brief introduction to the fundamentals of music, the course proceeds to a comprehensive survey of the principal styles of music in Western civilization. Fall term: from classical antiquity to 1750. Spring term: from 1750 to the present.

Music 221. **D**
TOPICS IN THE HISTORY OF MUSIC 3 credits

Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

Music 311. (F) **D**
MUSIC OF THE CLASSIC PERIOD 3 credits

The development of the classical style in Western European music from the age of the rococo to the time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.

Music 312. (S) **D**
MUSIC OF THE ROMANTIC PERIOD 3 credits

A study of 19th-century developments in music. The symphonic poem, art/song, and music/drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.

Music 313. (S) **D**
MUSIC OF THE TWENTIETH CENTURY 3 credits

The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.

Music 411. (F) **D**
MEDIEVAL AND EARLY RENAISSANCE MUSIC 3 credits

The evolution of sacred and secular music from the early Christian church to about 1500. The development of polyphony from its beginning to the work of Josquin Desprez.

Music 412. (S) **D**
LATE RENAISSANCE AND BAROQUE MUSIC 3 credits

An examination of musical developments from about 1500 to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.

THEORY and COMPOSITION

For the general student, courses in theory and composition do not carry prerequisites; however, the general student who has not had Music 103-104 is advised to use discretion in the selection of other theory and composition courses.

Music 103-104. (F, S) **D**
FUNDAMENTALS OF MUSIC THEORY 3-6 credits
 Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.

Music 211. **D**
TOPICS IN THE THEORY OF MUSIC 3 credits
 Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

Music 314-315. (F, S) **D**
HARMONY 3-6 credits
 Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each style studied. Open to the general student with permission of instructor.

Music 325.
ORCHESTRATION 3 credits
 A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.

Music 401.
ADVANCED THEORY AND COMPOSITION 3 credits
 An examination of the theoretical foundations and principles of more complex musical structures. Analysis and practice. Open to qualified students with permission of instructor.

Music 413. (F)
COUNTERPOINT 3 credits
 Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

APPLIED MUSIC

Music 151. 1 credit
 Available to the general student as well as the music major in accordance with the conditions stated below.

Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level. Arrangements to work with a teacher of the applicant's choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student's progress. The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed.

Students wishing to apply for applied music credit may register for Music 151 upon approval of the department.

Collegium Musicum

A vocal and instrumental performing ensemble devoted to the study of musical repertory of all periods which is designed for small groups.

FOREIGN LANGUAGES AND LITERATURES

BERNHARDT G. BLUMENTHAL, Ph.D., *Chairman*
Professors: Bernian, Blumenthal, Boudreau, Rudnytzky
Associate Professors: Brownstein, DiMarco, Mall, McCann,
Perfecky, Sapone
Assistant Professors: Angerosa, Morocco

Description of major programs follows; for dual majors, greater flexibility in individual programs can be arranged in consultation with departmental adviser.

CLASSICAL LANGUAGES

Required for Major in Classical Languages: 14 courses

- Ten courses in Latin
- Four courses in Greek

GREEK

Greek 101-102. **D**
ELEMENTARY GREEK 3-6 credits

An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

Greek 201-202. **D**
INTERMEDIATE GREEK 3-6 credits

Review of elementary grammar; readings of selected prose and poetry.

Greek 301-302. **D**
GREEK READINGS 3-6 credits

Readings selected to meet the individual needs of the students from Homer, lyric poetry, the Greek New Testament, Plato and the drama. May be repeated for credit.

LATIN

Latin 101-102. **D**
ELEMENTARY LATIN 3-6 credits

Thorough grounding in forms and vocabulary.

Latin 111-112. **D**
BASIC REVIEW 3-6 credits

Intensive review of Latin fundamentals, together with basic graded readings.

Latin 201-202. **D**
INTERMEDIATE LATIN 3-6 credits

Review of elementary grammar; readings of selected prose and poetry.

Latin 301-302. **D**
LATIN READINGS 3-6 credits

Readings selected to meet the individual needs of the students from Cicero, Livy, Horace, Vergil, Catullus, Ovid, Martial, patristic Latin, medieval Latin, Roman comedy and Latin inscriptions. May be repeated for credit.

RELATED STUDIES:

Classics 211. (F)

CLASSICAL MYTHOLOGY

3 credits

A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English.

Classics 212. (S)

CLASSICAL DRAMA

3 credits

Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

Classics 311. (F)

GREEK MASTERPIECES IN ENGLISH

3 credits

Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

Classics 312. (S)

LATIN MASTERPIECES IN ENGLISH

3 credits

The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.

MODERN LANGUAGES

FRENCH

Required for Major in French: 14 courses

- Ten French courses (two from 400 list)
- Four courses in second language

GENERAL EDUCATION

French 161. (F)

IDEALS AND IRONIES: MODERN FRENCH LITERATURE IN ENGLISH

3 credits

The rise of modernism as seen through some of the major works of 19th-century French literature: Stendhal, Flaubert, Nerval, Baudelaire, Rimbaud, Mallarmé, Huysmans and Jarry. Texts in English. Short critical papers.

French 162. (S)

REVOLT AND REVOLUTION: CONTEMPORARY FRENCH LITERATURE IN ENGLISH

3 credits

A study of man's attempt to deal with despair and inauthenticity in France during the 20th century as seen in some of the major works of the period. Apollinaire, Gide, Breton, Sartre, Beckett, Ionesco, Robbe-Grillet, and Michaux. Texts in English. Short critical papers.

French 101-102.

ELEMENTARY FRENCH

D
3-6 credits

A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour per week in the Language Laboratory.

French 201-202.

INTERMEDIATE FRENCH

D
3-6 credits

Review exercises in comprehending, speaking, reading and writing French. Cultural information on France. Weekly assignments in the Language Laboratory.

- French 301-302.** **D**
 STRUCTURE AND STYLE 3-6 credits
 Review of grammatical principles and their practical application in written exercises and in the translation of standard English prose into French.
- French 303-304.** **D**
 CONVERSATION AND COMPOSITION 3-6 credits
 Oral and written practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.
- French 311-312.** **D**
 SURVEY OF FRENCH LITERATURE 3-6 credits
 Readings and discussions of selected literary works from the beginnings to 1800 and from 1800 to the present.
- French 321-322.** **D**
 CIVILIZATION 3-6 credits
 The first semester treats the political, social, intellectual, and artistic developments in France from earliest times to 1870, while the second semester emphasizes these cultural structures as they exist in contemporary French society. Lectures and readings serve as a basis for class discussion in French.
- French 401. (S)** **D**
 OLD FRENCH LANGUAGE AND LITERATURE 3 credits
 The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.
- French 411. (F, S)** **D**
 SIXTEENTH-CENTURY LITERATURE 3 credits
 Readings and reports on works of representative authors of the 16th century.
- French 425. (F, S)** **D**
 CLASSICAL THEATRE 3 credits
 A study of the plays of Corneille, Moliere, and Racine.
- French 431. (F, S)** **D**
 EIGHTEENTH-CENTURY LITERATURE 3 credits
 Readings and reports on works of representative authors of the 18th century.
- French 447. (F, S)** **D**
 NINETEENTH-CENTURY NOVEL 3 credits
 A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.
- French 453. (F, S)** **D**
 MODERN POETRY 3 credits
 A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.
- French 455. (F, S)** **D**
 MODERN THEATRE 3 credits
 A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco, and Genet.
- French 457. (F, S)** **D**
 MODERN NOVEL 3 credits
 A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.

GERMAN

Required for Major in German: 14 courses

- German 401, 431, 480 or 481
- Seven electives in German
- Four courses in second language

GENERAL EDUCATION

German 161. (F)

THE GERMAN MIND: MODERN GERMAN
LITERATURE IN ENGLISH 3 credits

An introduction to selected works of prominent German writers of the classical and romantic ages. A composite view of the German mind of the 18th and 19th centuries. Readings from: Goethe, Schiller, Kleist, Büchner and Fontane. Texts in English. Short critical papers.

German 162. (S)

THE GERMAN DILEMMA: CONTEMPORARY
GERMAN LITERATURE IN ENGLISH 3 credits

An introduction to the selected works of prominent German writers of the 20th century. A study of the authors' attempts to restore values to life and their search for authenticity. Readings from: Mann, Kafka, Rilke, Brecht, and Grass. Texts in English. Short critical papers.

German 101-102.

ELEMENTARY GERMAN

D

3-6 credits

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

German 201-202.

INTERMEDIATE GERMAN

D

3-6 credits

Review exercises in comprehending, speaking, reading and writing German. Cultural information on German-speaking countries. Weekly assignments in the Language Laboratory.

German 209-210. (S)

TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN

3 credits

Translation of selected scientific and technical articles from contemporary journals in biomedicine, chemistry, geology, computer science, and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources.

German 301-302.

CONVERSATION AND COMPOSITION

D

3-6 credits

Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.

German 311-312.

THEMES IN GERMAN LITERATURE

D

3-6 credits

Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit.

German 320. (F, S)

STUDIES IN GERMAN CULTURE

D

3 credits

Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans' view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.

German 401. (F)

HISTORY OF THE GERMAN LANGUAGE

D

3 credits

The German language from its beginning to the present; particularly, the development of sounds, vocabulary, and the formation of standard High German.

German 405. (F, S) MEDIEVAL LITERATURE	D 3 credits
Study and discussion of German literature from its beginnings to the end of the medieval period.	
German 411. (F, S) LITERATURE OF THE 15th AND 16th CENTURIES	D 3 credits
Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque.	
German 421. (F, S) LITERATURE OF THE 17th AND 18th CENTURIES	D 3 credits
Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.	
German 431. (F, S) THE CLASSICAL AGE	D 3 credits
Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.	
German 441. (F, S) LITERATURE OF THE 19th CENTURY	D 3 credits
Study and discussion of the literature of romanticism, realism, and naturalism.	
German 451. (F, S) LITERATURE OF THE 20th CENTURY	D 3 credits
Study and discussion of modern German literature from 1880 to the present.	
German 480-481. SEMINAR	D 3-6 credits
Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.	

ITALIAN

Required for Major in Italian: 14 courses

- Italian 312, 451, 480 or 481
- Seven electives in Italian
- Four courses in second language

Italian 101-102. ELEMENTARY ITALIAN	D 3-6 credits
An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in Language Laboratory.	
Italian 201-202. INTERMEDIATE ITALIAN	D 3-6 credits
Exercises in composition, grammatical review, and selected readings with a view to introducing the student to the literature and civilization of the country.	
Italian 301-302. LANGUAGE AND STYLE	D 3-6 credits
Training in the use of correct idiomatic Italian and in the practical application of grammatical principles with a view toward improving the student's pronunciation and increasing his active vocabulary. Frequent use of audiovisual aids..	

Italian 311-312. SURVEY OF ITALIAN LITERATURE	D 3-6 credits
A comprehensive study of Italian literature from the Middle Ages to modern times, with comparative references to European literatures.	
Italian 320. (F, S) STUDIES IN ITALIAN CULTURE	D 3 credits
Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.	
Italian 331-332. READING LIST	D 3-6 credits
Gives students an acquaintance with excerpts of Italian writers from Saint Francis of Assisi to the poets of knighthood (Pulci, Boiardo, Ariosto, Tasso).	
Italian 401. (F, S) HISTORY OF THE ITALIAN LANGUAGE	D 3 credits
Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.	
Italian 451. (F, S) MODERN AUTHORS	D 3 credits
Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.	
Italian 480-481. SEMINAR	D 3-6 credits
Topics of investigation vary from semester to semester. Readings, reports and discussions of a selected genre (novel, drama, short story), with special reference to the works of Dante, Leopardi, and Manzoni. Seminar paper.	

RUSSIAN

Required for Major in Russian: 14 courses

- Russian 301-302 or 303-304, 401-402; Slavic 403-404
- Four Russian or Slavic electives
- Four courses in second language

Russian 101-102. ELEMENTARY RUSSIAN	D 3-6 credits
A modified audio-lingual approach; regular exercises in Language Laboratory stress fundamental structural features of the contemporary spoken language.	
Russian 201-202. INTERMEDIATE RUSSIAN	D 3-6 credits
Second part of two-year program based on modified audio-lingual principles. Continued emphasis on Language Laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.	
Russian 241-242. RUSSIAN LITERATURE OF THE 19th CENTURY	3-6 credits
Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.	

- Russian 245-246.** 3-6 credits
SOVIET LITERATURE
 Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn, and others.
- Russian 301. (F)** **D**
ADVANCED GRAMMAR AND CONVERSATION 3 credits
 Advanced grammar exercises and conversation. Reading of a Russian newspaper.
- Russian 302. (S)** **D**
SCIENTIFIC RUSSIAN 3 credits
 Theory and practice in translating scientific texts. Selected readings in chemistry, physics, mathematics, geology, anatomy, and astronomy.
- Russian 303-304.** **D**
ADVANCED READINGS AND COMPOSITION 3-6 credits
 Selected readings of 19th and 20th century Russian prose and verse. Translation of selected scientific articles. Intensive exercises in translating standard English prose into Russian.
- Russian 401. (F)** **D**
HISTORY OF THE RUSSIAN LANGUAGE 3 credits
 Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.
- Russian 402. (S)** **D**
OLD RUS' LITERATURE 3 credits
 Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on *Igor Tale* and the *Primary*, *Kievan*, and *Galician-Volynian* chronicles. The beginnings of fiction.

RELATED STUDIES:

- Slavic 320. (S)**
THE CULTURES OF THE PEOPLES OF THE SOVIET UNION 3 credits
 Lectures and readings on seventeen major Soviet nationalities: the fifteen which have their own Union Republics, plus the Tatars and the Jews. An in-depth view of the territory, demography, culture, media, education, language, and national attitudes of the various peoples of this multinational state.
- Slavic 403. (F)** **D**
UKRAINIAN 3 credits
 The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.
- Slavic 404. (S)** **D**
POLISH 3 credits
 The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

SPANISH

Required for Major in Spanish: 14 courses

- Spanish 311-312, 313
- Seven Spanish electives (two from 400 list)
- Four courses in second language
- Recommended: History 131, 132

GENERAL EDUCATION

Spanish 161. (F)

REALITY VS. ILLUSION: HISPANIC
LITERATURE IN ENGLISH

3 credits

Varying facets of a persistent theme of human existence evolve in readings from *Lazarillo*, and *Don Quixote*, and selections by Calderon, Cortazar, Borges, and Cela. Texts in English. Short critical papers.

Spanish 162. (S)

LIFE AND DEATH. HISPANIC LITERATURE
IN ENGLISH

3 credits

A persistent theme of existentialism is revealed in *Celestina* and selections by Unamuno, Lorca, Ortega, Fuentes, and Neruda. Texts in English. Short critical papers.

Spanish 101-102.

ELEMENTARY SPANISH

D

3-6 credits

Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the Language Laboratory.

Spanish 201-202. (F, S)

INTERMEDIATE SPANISH

D

3 credits

Review exercises in comprehending, speaking, reading, and writing Spanish. Cultural information on Spanish-speaking countries. Weekly assignments in the Language Laboratory.

Spanish 301-302.

ADVANCED CONVERSATION AND COMPOSITION

D

3-6 credits

Includes intensive oral and written exercises with a view towards improving the student's speaking and writing skills. Students make frequent use of audio aids.

Spanish 307. (F, S)

COMMERCIAL SPANISH

D

3 credits

Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.

Spanish 311-312.

SURVEY OF SPANISH LITERATURE

D

3-6 credits

An introduction to the study of peninsular Spanish literature from the Middle Ages to the present. Readings and discussions in Spanish.

Spanish 313. (F, S)

SURVEY OF SPANISH AMERICAN LITERATURE

D

3 credits

Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.

Spanish 321. (F)

SURVEY OF SPANISH CIVILIZATION

D

3 credits

A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.

Spanish 322. (S)

SURVEY OF SPANISH AMERICAN CIVILIZATION

D

3 credits

A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the vicerealties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.

Spanish 350-351.

INTRODUCTION TO BILINGUAL-BICULTURAL STUDIES

D

3-6 credits

Linguistic and cultural problems in teaching English to speakers of other languages. Emphasis on materials, techniques and attitudes of teachers and students. Special emphasis on the vocabulary and idiom of the Caribbean. Cultural survey of present day problems in Puerto Rico and other Caribbean countries.

- Spanish 401. (F)** **D**
HISTORY OF THE SPANISH LANGUAGE 3 credits
 Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.
- Spanish 405. (F, S)** **D**
LITERATURE OF THE MIDDLE AGES 3 credits
 Emphasis is placed on such works as *Cantar de Mio Cid*, *Poema de Fernan Gonzalez*, and *Amadis de Gaula*; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.
- Spanish 411. (F, S)** **D**
RENAISSANCE LITERATURE 3 credits
 The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as *Tirant lo Blanc*, *Celestina*, and *Lazarillo de Tormes* form the basis of this period of literary activity.
- Spanish 415. (F, S)** **D**
DRAMA OF THE GOLDEN AGE 3 credits
 Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.
- Spanish 419. (F, S)** **D**
CERVANTES 3 credits
 Readings and discussions of *Don Quixote*. Other important works by Cervantes also discussed.
- Spanish 442. (F, S)** **D**
ROMANTICISM 3 credits
 A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.
- Spanish 443. (F, S)** **D**
POETRY OF THE 19th AND 20th CENTURIES 3 credits
 Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.
- Spanish 448. (F, S)** **D**
THE SPANISH AMERICAN NOVEL 3 credits
 Introduces students to the development of the contemporary Latin American novel through an analysis of the sociological and literary aspects of the work of various leading authors. Special attention to works by and about women. Class discussions and examinations in Spanish.
- Spanish 457. (F, S)** **D**
THE SPANISH NOVEL OF THE 19th AND 20th CENTURIES 3 credits
 Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Ala, Cela, Delibes, and Goytisolo.
- Spanish 480. (F, S)** **D**
SEMINAR 3 credits
 Topics of investigation vary from semester to semester.

COMPARATIVE LITERATURE

- Comparative Literature 101. (F)**
SURVEY OF WESTERN LITERATURE I 3 credits
 Lectures on masterpieces of western literature from its beginnings to the end of the classical period. Course investigates the western author's attempt to establish a consistent world view and

the emergence of specific literary forms: the epic, the narrative, the drama. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

Comparative Literature 103. (S)

SURVEY OF WESTERN LITERATURE II

3 credits

Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author to reality and the transformations in his world view and in specific literary forms. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

GEOLOGY

H A BART, Ph.D., *Chairman*

Associate Professors: Bart, Hoersch

Required for Major in Geology: 15 courses

- Geology 101, 102, 202, 203, 204, 205, 302, 303, 401, plus three elective geology courses at the 200 level or above.
- Chemistry 111-112. Mathematics 113.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, computer science, Russian, German, or French.

Geology 101. (F)

PHYSICAL GEOLOGY

D

3 credits

An introduction to the various physical processes that constantly change the interior and the surface of the earth, including weathering, earthquakes, volcanoes, glaciation, marine erosion, and mountain building. Two hours lecture, two hours laboratory and field trips.

Geology 102. (S)

HISTORICAL GEOLOGY

D

3 credits

An introduction to the evolutionary physical and biological processes that have modified the earth through geologic time. Two hours lecture, two hours laboratory and field trips.

Geology 103-104. (F, S)

DESCRIPTIVE ASTRONOMY I & II

D

3-6 credits

The celestial sphere and its coordinates; the telescope and other astronomical instruments, time and the calendar; the solar system; the stars—their distances, motion, spectra, luminosity, and development; binary and multiple star systems, nebula; and the external galaxies. Geology 103 is not a prerequisite for Geology 104.

Geology 105. (S)

PHYSICAL OCEANOGRAPHY

D

3 credits

A study of physical oceanography with emphasis on tides, currents, waves, chemistry of sea water, and geology of ocean basins. Three hours lecture.

Geology 202. (F)

MINERALOGY AND CRYSTALLOGRAPHY

4 credits

The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: Geology 101, 102.

Geology 203. (S)
OPTICAL MINERALOGY

4 credits

An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: Geology 202.

Geology 204. (S)
PETROLOGY

4 credits

Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Two hours lecture, four hours laboratory. Prerequisite: Geology 202.

Geology 205. (F)
PALEONTOLOGY

3 credits

A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, two hours laboratory.

Geology 301. (S)
STRATIGRAPHY

3 credits

An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, two hours laboratory.

Geology 302. (F)
SEDIMENTOLOGY

4 credits

Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.

Geology 303. (F)
STRUCTURAL GEOLOGY

3 credits

Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Two hours lecture, three hours laboratory. Prerequisites: Mathematics 113, Geology 101, 102, 202, 204.

Geology 304. (S)
GLOBAL TECTONICS

3 credits

A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory. Prerequisites: Geology 101, 102.

Geology 305. (S)
GEOCHEMISTRY

3 credits

Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: Chemistry 111-112; Geology 101, 102, 202.

Geology 401. (F)
IGNEOUS PETROLOGY

4 credits

Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Two hours lecture, four hours laboratory, field trips. Prerequisites: Geology 202, 203, 204; Chemistry 111, 112.

Geology 402. (S)**METAMORPHIC PETROLOGY**

4 credits

A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination of the various metamorphic zones. Two hours lecture, four hours laboratory, field trips. Prerequisites: Geology 202, 203, 204; Chemistry 111, 112.

Geology 403. (S)**ECONOMIC GEOLOGY**

3 credits

The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: Geology 202, 204; Chemistry 111, 112.

Geology 470. (F)**TOPICS IN ADVANCED GEOLOGY**

3 credits

Selected topics dealing with contemporary developments in geology.

Geology 480. (F, S)**RESEARCH**

1-4 credits

Supervised research in geology. Can be elected in fall, spring, or summer. Permission of chairman required.

HISTORY

GEORGE B. STOW, Ph.D., *Chairman*

Professors: O'Grady, Rossi, Stow

Associate Professors: Cziraky, Fair, Hennessy, Labunka, McCarthy

Lecturer: Lukacs

85

Required for Major in History: 14 courses

- Three from each section, plus a two-semester seminar.

SECTION I:**FOUNDATION COURSES**

Designed to provide a broad overview of the past. Viewed as basic foundation courses for all students interested in the past.

History 111.**HISTORY OF WESTERN CIVILIZATION TO 1500**

D

3 credits

A survey of cultural achievements of ancient civilizations of the Mediterranean basin, as well as of the medieval Europe which became part of the heritage of Western or European civilization.

History 112.**HISTORY OF WESTERN CIVILIZATION SINCE 1500**

D

3 credits

A survey of European history from Renaissance to modern times. Development of national states and other modern institutions in Europe discussed. Socio-economic changes within the European society considered as a background.

History 113-114.**AN INTRODUCTION TO THE AFRO-ASIAN WORLDS, I & II**

D

3-6 credits

An examination of the social, economic, political, and cultural institution of Asia, the Moslem world, tropical Africa, and South Africa.

History 115. **D**
 HISTORY OF THE UNITED STATES TO 1865 3 credits
 A survey of the American people from colonial days to the Civil War.

History 116. **D**
 HISTORY OF THE UNITED STATES SINCE 1865 3 credits
 A survey of the American people with particular emphasis upon industrialization, social change, and the growth of the nation as a world power.

SECTION II: CHRONOLOGICAL SURVEYS

Designed to provide a detailed examination of a more limited historical period.

History 131. **D**
 LATIN AMERICA: THE COLONIAL PERIOD 3 credits
 A survey that treats the Inca, Aztec, and Maya cultures, African influences as well as Spanish and Portuguese contributions to the development of Latin America.

History 132. **D**
 REVOLUTION AND SOCIAL CHANGE IN LATIN AMERICA 3 credits
 Revolutionary movements in Latin America from Independence to the present with special emphasis on Castro, Allende, Peron, Zapata, Vargas, and the military dictators.

History 135. **D**
 EGYPTIAN AND GREEK CIVILIZATIONS 3 credits
 A survey that stresses the development of Greek civilization until the death of Alexander the Great.

History 136. **D**
 THE HELLENISTIC AND ROMAN WORLDS 3 credits
 A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.

History 138. **D**
 THE EARLY MIDDLE AGES 3 credits
 A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.

History 139. **D**
 THE LATER MIDDLE AGES 3 credits
 A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.

History 141. **D**
 MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS 3 credits
 A survey of Europe centered on the political and social development in Germany and France and the impact of Russia's rise to world power.

History 142. **D**
 MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE 3 credits
 A detailed survey of Europe in the last hundred years.

History 144. **D**
 TOPICS IN AFRICAN HISTORY 3 credits
 An account of the empires, tribes, and development of Africa from earliest times to the present.

History 146. **D**
 EAST ASIA IN THE MODERN WORLD 3 credits
 Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and western influence.

History 148. **D**
SLAVIC AND EASTERN EUROPEAN HISTORY 3 credits
 An examination of the rise of Slavic civilization and the present problems of Eastern Europe.

**SECTION III:
 TOPICS COURSES**

Special in-depth analysis of limited themes and topics.

History 224. **D**
HISTORY OF PHILADELPHIA 3 credits
 The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of \$40.00.

History 225. **D**
IMPERIALISM IN THE MODERN WORLD 3 credits
 A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.

History 228. **D**
WOMEN AND HISTORY 3 credits
 The history of women and their changing role and position in Western Europe from the Classical Period to the 20th century. Particular attention to the development of primary institutions such as the family and motherhood.

History 229. **D**
THE AMERICAN WOMAN 3 credits
 An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women and the law, and the unique challenges facing black women.

History 231. **D**
AMERICA'S MILITARY PAST 3 credits
 The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy.

History 233. **D**
THE AMERICAN IMMIGRANT 3 credits
 The history of immigration to America and the ethnic impact upon American institutions.

History 237. **D**
THE BLACK EXPERIENCE IN AMERICA 3 credits
 The main themes in black history from the African experience to the present with special attention given to slavery, protest movements, civil rights, and black achievement.

History 240. **D**
TOPICS IN MODERN HISTORY 3 credits
 An examination of selected topics illustrating the political, social, and cultural history of the modern world.

History 242. **D**
HISTORY OF THE WESTERN MOVEMENT IN AMERICA 3 credits
 A study of the American frontier emphasizing pioneer life, federal Indian policy, and the settlement of the Great Plains and Far West.

History 244. **D**
BIOGRAPHICAL HISTORY 3 credits
 An investigation of important historical events through the role of individual men and women in history. Stresses guided research.

History 247. **D**
 PRESIDENTIAL POLITICS. ROOSEVELT TO REAGAN 3 credits
 Historical analysis of presidential campaigns from 1900 to 1980, stressing the evolution of political techniques, issues, political parties, and presidential personalities.

History 249. **D**
 DIRECTED READINGS 3 credits
 Readings of certain basic books relating to a specific historical topic, theme, or era; assignments discussed in seminar-tutorial fashion.

SECTION IV: NATIONAL COURSES

A detailed examination of specific eras in national histories. May be taken for distribution with the approval of the chairman.

History 302. **D**
 THE AMERICAN REVOLUTION 3 credits
 An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.

History 313. **D**
 JEFFERSONIAN-JACKSONIAN DEMOCRACY 3 credits
 A detailed analysis of the development of the American political system in an increasingly democratic society.

History 315. **D**
 THE CIVIL WAR ERA 3 credits
 A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.

History 325. **D**
 AMERICA AS A WORLD POWER, 1939-1979 3 credits
 The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

History 329. **D**
 THE EMERGENCE OF MODERN AMERICA, 1877-1913 3 credits
 The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.

History 340. **D**
 MODERN IRELAND 3 credits
 An examination of the major political, social, and economic developments in Ireland since the Famine of 1845

History 347. **D**
 THE UNITED STATES AND EAST ASIA 3 credits
 The interrelationship of the United States and the East Asian world in the modern period.

History 352. **D**
 REVOLUTIONARY RUSSIA FROM 1917 TO THE PRESENT 3 credits
 A survey of internal conflicts leading to the Revolution and its aftermath.

History 358. **D**
 RECENT BRITAIN: EMPIRE TO WELFARE STATE 3 credits
 A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life

SECTION V: SEMINARS

Required of all history majors. These courses are designed to provide the student with an exposure to the methodology of historical research. Methodology is offered in the fall semester, research seminars in the spring.

History 480-485.

SEMINARS

3-6 credits

Methodological and research courses.

CONCENTRATION IN INTERNATIONAL STUDIES (CIS)

Directed by: DR. JOSHUA BUCH

Designated as a minor available to all students regardless of the major.

Required:

Category I: Two of the following General Education courses:

- English 164, 165
- French 161, 162
- German 161, 162
- Spanish 161, 162

Category II: Two of the following Area Distribution courses:

- English 312
- Economics 412
- History 113, 114, 132, 142, 144, 146, 148*, 225*, 347*, 352*, 358*
- Political Science 104, 234, 235, 236, 238
- Sociology 208, 213, 308
- Foreign Language**: German, French, Russian, Spanish, Italian
- Religion 240, 241, 244

Category III: Three of the following courses***:

- Economics 431 or 230
- Political Science 220
- Management 481
- Finance/Marketing 403

*These courses can be taken only upon the approval of the Director

**It is strongly recommended that CIS students take a foreign language at an appropriate level

***These courses have some prerequisites; please see course descriptions.

MATHEMATICAL SCIENCES

SAMUEL J. WILEY, Ph.D., *Chairman*

Professors: Albright, McCarty

Associate Professors: Hofmann, O'Neill, Quinn, Wiley

Assistant Professors: Andrilli, Brady, Eisman, Kirsch, Mooney, Van Rossum

Instructors: Elliott, Hoover, McHugh, Pomerance, Turk

Lecturer: Scheiter

Required for Major in Mathematical Sciences: 15 courses

There are three major programs: computer science, mathematics, and mathematics-education. The choice of program should depend on career objectives and personal interests. If there are any questions the student should consult with the department chairman or departmental adviser.

Mathematics:

Mathematics 120, 221, 222, 240, 321, 341; Computer Science 150, Physics 105-106 or 111-112, and six mathematics courses from Section B.

Computer Science:

Mathematics 120, 221, 240, Computer Science 150, 153, 254, 257; four computer science courses chosen from Section D; two approved courses in probability and statistics; and two courses chosen from the following: computer science Section D; Information Systems 301, 302, 401; Mathematics 222, 321, 341, 421; Philosophy 325; Physics 251, 353; computer science Section E (only with approval of chairman).

Mathematics-Education (11 courses):

Mathematics 120, 221, 222, 240, 321, 330, 341; Computer Science 150, Physics 105-106 or 111-112, and one mathematics course from Section B.

Computer Science-Mathematics (Dual major requiring approval of dean and department chairman.): Mathematics 120, 221, 222, 240, 321, 341, 410, 411; Computer Science 150, 153, 254, 257; four computer science courses from Section D; Physics 105-106; and two mathematics courses from Section B

SECTION A:

Mathematics 101. (F)

INTERMEDIATE ALGEBRA

3 credits

Algebraic operations, linear and quadratic equations, exponents and radicals, elementary functions, graphs, systems of linear equations. *Note:* Not to be taken to fulfill distribution or major requirements. Students who have other college credits in mathematics must obtain permission of the department chairman to enroll in this course.

Mathematics 111. (F, S)

INTRODUCTION TO CALCULUS

D

3 credits

Fundamentals of differential calculus, concentrating on algebraic, exponential, and logarithmic functions with applications of calculus to the management and social sciences. Intended for business and liberal arts majors who have had at least two years of high school algebra

Mathematics 112. (F, S)

CALCULUS AND FINITE MATHEMATICS

D

3 credits

Continuation of Mathematics 111. Topics include integral calculus, permutations, combinations, elementary probability, and linear algebra. Prerequisite: Mathematics 111

Mathematics 113. (F)

ALGEBRA AND TRIGONOMETRY

D

4 credits

Sets: the real number system; linear systems; matrices; logarithmic, exponential, and trigonometric functions; theory of equations. A knowledge of elementary trigonometry is assumed.

Mathematics 120. (F, S) **D**
 CALCULUS AND ANALYTIC GEOMETRY I 4 credits

Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing, velocity, and acceleration; integration with applications to areas, volumes, surfaces, and work; the fundamental theorem of the calculus. Prerequisite: Mathematics 113 or equivalent in secondary school mathematics.

Mathematics 221. (F, S) **D**
 CALCULUS AND ANALYTIC GEOMETRY II 4 credits

Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 120.

Mathematics 222. (F, S)
 CALCULUS AND ANALYTIC GEOMETRY III 4 credits

Linear algebra; vector functions; partial differentiation, multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 221.

Mathematics 240. (F, S)
 LINEAR ALGEBRA 3 credits

Linear equations and matrices; real vector spaces; linear transformations and matrices; determinants; eigenvalues and eigenvectors. Prerequisite: Mathematics 112 or 120.

Mathematics 321. (F)
 ADVANCED CALCULUS 3 credits

Calculus of vector valued functions; Green, Gauss, and Stokes theorems; infinite series. Prerequisites: Mathematics 222, 240, or permission of instructor.

Mathematics 341. (F)
 ABSTRACT ALGEBRA 3 credits

Sets and mappings; groups, rings, fields, and integral domains; substructures and quotient structures; homomorphisms and isomorphisms; abelian and cyclic groups; symmetric and alternating groups; Sylow theorems; polynomial rings. Prerequisite: Mathematics 240 or permission of instructor.

SECTION B:

Mathematics 322. (S)
 DIFFERENTIAL EQUATIONS 3 credits

Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: Mathematics 222.

Mathematics 330. (F 1984)
 MODERN GEOMETRIES 3 credits

Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries; recent developments in geometry. Prerequisite: Mathematics 240.

Mathematics 410. (F 1983)
 PROBABILITY AND STATISTICS I 3 credits

Sample spaces and probability measures; combinatorics; conditional probability and independence; random variables; densities and distributions; functions of a random variable; expected value; variance; Chebyshev's inequality; correlation coefficient; laws of large numbers; central limit theorem; applications to random walk. Prerequisite: Mathematics 222.

Mathematics 411. (S 1984)
 PROBABILITY AND STATISTICS II 3 credits

Measures of central tendency and variability treated briefly. Random sampling from normal and non-normal populations. Estimation of parameters. Maximum likelihood estimates. Normal, chi-square, Student's t, and F distributions. Correlation and regression. Prerequisite: Mathematics 410.

Mathematics 421.**NUMERICAL ANALYSIS**

4 credits

Basic concepts; interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: Mathematics 222, Computer Science 150 or 151.

Mathematics 422.**PARTIAL DIFFERENTIAL EQUATIONS**

3 credits

One dimensional wave equation, classification of linear second-order partial differential equations in two variables, some properties of elliptic and parabolic equations, separation of variables, Fourier series, Sturm-Liouville theory, Bessel functions. Prerequisite: Mathematics 322.

Mathematics 423.**REAL VARIABLES**

3 credits

Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 321.

Mathematics 424. (S 1984)**COMPLEX VARIABLES**

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: Mathematics 321.

Mathematics 430.**TOPOLOGY**

3 credits

Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 341.

Mathematics 470, 471, 472, 473.**SELECTED TOPICS IN MATHEMATICS**

3 credits

An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.

COMPUTER SCIENCE

SECTION C:

Computer Science 150. (F, S)**INTRODUCTION TO COMPUTER SCIENCE IN SCIENCE AND MATHEMATICS****D**

3 credits

Basic programming and program structure, data representation, survey of computers — languages, systems, and applications (with emphasis on mathematical-scientific applications) — computer solution of several applied problems. Recommended for science, mathematics, and computer science majors. Prerequisite: one year of college mathematics (or taken concurrently).

Computer Science 151. (F, S)**INTRODUCTION TO COMPUTER SCIENCE IN BUSINESS ADMINISTRATION****D**

3 credits

Basic programming and program structure; data representation; survey of computers — languages, systems, and applications (with emphasis on business applications) — computer solution of several data processing problems. Recommended for business and liberal arts majors. Prerequisite: one year of college mathematics (or taken concurrently).

Computer Science 153. (F, S)**ALGORITHMS AND DATA STRUCTURES****D**

3 credits

Emphasis on the development of algorithms for problem solution with programming in PASCAL. Introduction to elementary data structures: arrays, stacks, queues, linked lists, trees. Sorting and searching algorithms. Prerequisite: Computer Science 150 or 151.

Computer Science 154.**COBOL IN BUSINESS DATA PROCESSING**

3 credits

Review of computer concepts, problem solving, and program documentation. Study and use of COBOL language in several case studies of commercial data processing applications. Emphasis on structured programming, documentation, problem analysis, file processing, and organization. This is a terminal course designed for business majors. Prerequisite: Computer Science 151.

Computer Science 254. (F, S)**FILE AND DATA MANAGEMENT SYSTEMS**

3 credits

Introduction to COBOL language. File types and file management. Introduction to sequential, indexed sequential, and random-access file structures. Prerequisite: Computer Science 153 or permission of instructor.

Computer Science 257. (F, S)**COMPUTER STRUCTURE AND ASSEMBLY LANGUAGE**D
3 credits

Introduction to computer structure and architecture with programming assignments done in MACRO-20. Computer structure and machine language, assembly language, addressing techniques, macros, file input/output, subroutines, recursion, interrupts, error handling. Prerequisite: Computer Science 153.

SECTION D:**Computer Science 354. (F)****DATA STRUCTURES**

3 credits

An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation; files and file structures; hash codes and comparison of search methods. Prerequisite: Computer Science 153.

Computer Science 355. (F)**DISCRETE STRUCTURES**

3 credits

Review of set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; Boolean algebra and propositional logic; applications of these structures to various areas of computer science. Prerequisites: Computer Science 153, Mathematics 240.

Computer Science 356. (S)**PROGRAMMING LANGUAGES**

3 credits

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, binding, and subprograms; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisites: Computer Science 254, 257.

Computer Science 357. (F)**ASSEMBLERS, LOADERS AND COMPILERS**

3 credits

Macros and their use. Structure and function of assemblers, linking loaders, and compilers. Program subroutine linkage, parameter passing and binding. Syntax graphs and parsers. Students will design and program several examples. Prerequisite: Computer Science 257.

Computer Science 358. (S)**COMPUTER ARCHITECTURE**

3 credits

General computer structure. Basic logic design: gates, flip-flops, registers, data and address buses. Coding: encoders, decoders, converters. Architecture: communication among large scale computer components, hardware implementation of instructions. Study of a simple computer system. Prerequisite: Computer Science 257 or concurrently.

Computer Science 454. (F)

ADVANCED DATA PROCESSING AND DATA BASE MANAGEMENT

3 credits

Data base system architecture — data structures, storage structures, and data languages. Alternate approaches to data base management systems — relational approach, hierarchical approach, network approach. Data base security and integrity. Query processing. Prerequisite: Computer Science 254.

Computer Science 455. (S)

FORMAL LANGUAGES AND AUTOMATA THEORY

3 credits

Formal languages and their description by grammars and automata: regular, context-free, context sensitive, and unrestricted languages. Deterministic and non-deterministic machines. Finite state machines and their applications. Theory of translation, parsing, LL(K), LR(K) and precedence grammars. Prerequisite: Computer Science 355.

Computer Science 457. (S)

OPERATING SYSTEMS

3 credits

Principles and concepts of process and resource management in operating systems. I/O programming, interrupt mechanism; memory management; processor management, scheduler, traffic controller; device management and information management and file systems. Concepts will be illustrated in the context of modern computers. Prerequisite: Computer Science 357.

SECTION E:

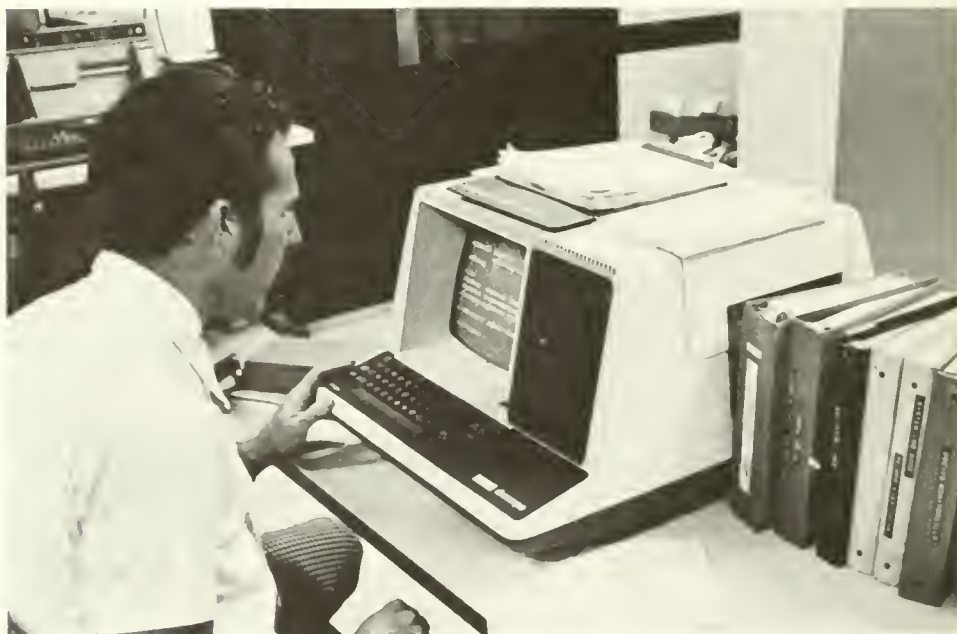
94

Computer Science 470, 471, 472, 473.

SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.



MILITARY SCIENCE

LIEUT. COLONEL LAWRENCE A. RITCEY, M.Ed.

Professor of Military Science

Assistant Professors: Davis, Kentfield, School, Stone, Woods

ROTC

Enrollment in 100 and 200 level Military Science courses is closed to seniors and open only to juniors with permission of the department chairperson. See page 34 for further information.

Military Science 101. (F, S)

MILITARY SCIENCE I, THE HISTORY OF MILITARY ART

1 credit

The art of war from ancient times to the present. A study of military operations and the evolution of military theory and institutions. One hour leadership laboratory.

Military Science 102. (S)

MILITARY SCIENCE I, AMERICAN MILITARY HISTORY

2 credits

Examines the how and why of American involvement in wars from the Revolution to Vietnam. One hour leadership laboratory.

Military Science 201. (F, S)

MILITARY SCIENCE II, MILITARY GEOGRAPHY

1 credit

The estimate of national power and the role of geopolitics examined in the framework of American military operations and the national security structure of the U.S. One hour leadership laboratory.

Military Science 202. (S)

MILITARY SCIENCE II, MILITARY GEOGRAPHY (Continued)

2 credits

A study of tactical military geography to include a study of map reading and geomorphology. Class discusses and practices the essence of orienteering. One hour leadership laboratory.

Military Science 301. (F)

ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP

3 credits

Introductory course in leadership examining the principles of leadership. Includes a case study of the junior army leader, his roles and responsibilities. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 302. (S)

ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP (Continued)

3 credits

Analyzes the role of the leader by examining small unit operations of an infantry platoon. After studying the theory of operations, students are placed in leadership positions and given situations to analyze. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 401. (F)

ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY MANAGEMENT

3 credits

Analyzes the principles of management by use of case studies. Stresses the art of communication for success in management. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 402. (S)

ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY
MANAGEMENT (Continued)

3 credits

Management by the junior officer. Includes command and staff responsibilities and relationships, military law, logistics, maintenance, and administration. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

MUSIC

(See Fine Arts.)

PHILOSOPHY

MICHAEL KERLIN, Ph.D., *Chairman*
Professors: Kerlin, Mihalich, Naughton
Associate Professors: Dallery, Fitzgerald,
 Lashchuk, Pierzchalski, Strosser, Sullivan
Assistant Professors: Fallon, Macoretta, Phillips

Required for Major in Philosophy: 10 courses

- Philosophy 207 or 325; 311, 326, 327, 328, 416, 480.
- Any three courses above the 100 level.

GENERAL EDUCATION

The student must take one course in Series A and one course in Series B. The course in Series A must precede the one in Series B. An effort is made to introduce the student to the basic problems and methods of philosophy as well as to some texts from Plato or Aristotle.

SERIES A

Philosophy 161. (F, S)
 HUMAN NATURE AND HUMAN DESTINY 3 credits

A study of man in himself and his relationship to others and to the world. Themes discussed include human freedom and human love; alienation; and human destiny.

Philosophy 162. (F, S)
 FOUNDATIONS OF MORAL LIFE 3 credits

A study of philosophical interpretations of moral life and their application to specific problems. Themes discussed include the nature of commitment and responsibility; the problem of conscience and moral law; the character of moral judgment, and the notion of the common good.

Philosophy 164. (F, S)
 CRITICAL THINKING 3 credits

Aims at developing the skill of analyzing, interpreting, and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of arguments, and the recognition of fallacies.

Philosophy 201. (F, S)
 ART AND CREATIVITY (AESTHETICS)

A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

SERIES B

Philosophy 166. (F, S)
 REASON AND REALITY 3 credits

A study of the basic relationships between thought and reality. Themes discussed include skepticism and truth; rationality and selfhood; and knowledge and the various manifestations of existence.

Philosophy 167. (F, S)
 PHILOSOPHICAL APPROACHES TO GOD 3 credits

A study of philosophical positions relating to questions about the existence of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

Philosophy 169. (F, S)
 WORK AND CULTURE 3 credits

A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.

Philosophy 202. (F)
EASTERN PHILOSOPHY

D
3 credits

A study of the primary streams of Hindu and Chinese thought as they originated and as they attract western thinkers of today. Jainism, Samkhya-Yoga, Vedanta, Early Buddhism, Transcendental Buddhism, Confucianism, Taoism, forms of Chinese Buddhism, and Zen will be given most attention.

Philosophy 203. (S)
AMERICAN PHILOSOPHY

D
3 credits

A presentation and evaluation of the major thinkers and themes in American thought from the Enlightenment through Transcendentalism to Pragmatism. Figures studied include: Emerson, Peirce, James, Dewey, and Royce.

Philosophy 204. (S)
RUSSIAN AND EAST EUROPEAN PHILOSOPHY

D
3 credits

A study of such thinkers as Skovoroda, Tolstoy, Lenin, Stalin, Berdyaev and others. The relationship of Soviet Marxism and dialectical materialism to ethics, art, and science; human rights, national rights, and the problems of minorities.

Philosophy 205. (F)
PHILOSOPHY OF COMMUNISM

D
3 credits

An historical and systematic study of the writings of Karl Marx emphasizing the Hegelian origins of his critique of capitalism, the problem of ideology, the Marxian view of social science, and the development of Marxism as theory and practice at the hands of Engels, Lenin, and Stalin.

Philosophy 206. (F)
SOCIAL PHILOSOPHY

D
3 credits

A critical examination of the nature and origins of society through the reading and discussion of some of the primary philosophical texts. Themes include: person and society, human rights and law, justice and society, culture and society, the natural and the social sciences. Particular problems considered will include the black experience in American society.

Philosophy 207. (F)
CLASSICAL LOGIC

D
3 credits

A study of traditional, or Aristotelian, logic stressing the major forms of inference found in ordinary discourse. It includes a consideration of the material or non-formal fallacies in deductive and inductive reasoning.

Philosophy 208. (S)
THE PHILOSOPHY OF HISTORY

D
3 credits

A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.

Philosophy 209. (S)
THE PHILOSOPHY OF THOMAS AQUINAS

D
3 credits

A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from *Essence and Existence* and the *Summa Theologiae*.

Philosophy 210. (F, S)
EXISTENTIALISM

D
3 credits

An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, Sartre, and Merleau-Ponty. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.

Philosophy 212. (S)**ETHICS: THEORIES AND ISSUES****D**

3 credits

Intended to stimulate and help the student to do clear, precise, philosophical thinking about ethical questions through the reading and discussion of some of the primary philosophical texts that influenced the development of western moral thought; a more specialized course than Philosophy 162. *Recommended for all philosophy majors.*

Philosophy 213. (F)**PHILOSOPHY OF SPORTS****D**

3 credits

A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.

Philosophy 221. (S)**BUSINESS ETHICS****D**

3 credits

Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision making and to the ethical problems of consumerism and government control.

Philosophy 222. (F)**LOVE AND HUMAN SEXUALITY****D**

3 credits

A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.

Philosophy 223. (S)**PERSPECTIVES ON DEATH****D**

3 credits

A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.

Philosophy 311. (F)**PROBLEMS OF KNOWLEDGE****D**

3 credits

A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims. *Required of all philosophy majors.*

Philosophy 323. (S)**THE PHILOSOPHY OF SCIENCE****D**

3 credits

The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.

Philosophy 325. (S)**SYMBOLIC LOGIC****D**

3 credits

A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.

Philosophy 326. (F)**HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD****D**

3 credits

Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle. *Required of all philosophy majors; open to others.*

Philosophy 327. (S) **D**
 HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND
 RENAISSANCE PERIODS 3 credits

From St. Augustine through the age of scholasticism to the Renaissance. *Required of all philosophy majors; open to others*

Philosophy 328. (F) **D**
 HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD 3 credits

From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant. *Required of all philosophy majors; open to others.*

Philosophy 416. (F) 3 credits
 TUTORIAL IN PHILOSOPHY

Introduces the student to the critical reading of a major philosophical text. Text will be studied in common, and critical papers will be written on the text studied. *Required of philosophy majors; open to others with approval of chairman.*

Philosophy 470. **D**
 SPECIAL TOPICS 3 credits

Philosophy 480. (S) 3 credits
 SEMINAR

An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. *Required of philosophy majors; open to others with approval of chairman.*

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PHYSICS

*Chairman: Joseph W. Simmons, M.S.
 Associate Professors: Guttman, Longo, Simmons
 Assistant Professor: Strieb*

Required for Major in Physics: 15 courses

- Physics 111-112, 113, 211, 212, 213, 311, 313, 411, 412
- Physics 214 and 224 or 351 and 352
- Mathematics 120, 221, 222

Physics 101. (F) **D**
 FROM THE ATOM UP 3 credits

For science and non-science majors. The concepts and models of classical dynamics and astronomy culminating in the Newtonian world view. Faraday-Maxwell electrodynamics and the special theory of relativity. Concepts rather than mathematics stressed. No prerequisites.

Physics 102. **D**
 FROM THE ATOM DOWN 3 credits

For science and non-science majors. General relativity and cosmology. The conservation laws and their relation to elementary particle physics. The role of chance in physics from thermodynamics to the quantum revolution. Matter theory. Physics and life. Concepts rather than mathematics stressed.

Physics 105-106. **D**
 GENERAL PHYSICS 4 credits

Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Electromagnetism, D.C. and A.C. circuits and elementary optics. Prerequisite: Mathematics 120. Three hours lecture, two hours laboratory; two terms.

- Physics 111-112.** **D**
 GENERAL PHYSICS I & II 4 credits
 For freshmen physics majors and qualified students in other disciplines. An introduction to the ideas and techniques of classical physics. First semester: classical mechanics of particles and rigid bodies. Second semester: electricity and magnetism, thermal physics. Relation of these areas to current research is stressed. Prerequisite: Mathematics 120 and 221 concurrently (or equivalent). Three hours lecture, one hour problem session, two hours laboratory; two terms.
- Physics 113. (F)** **D**
 GENERAL PHYSICS III 3 credits
 Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 105-106 or 111-112; Mathematics 221 concurrently.
- Physics 120.** **D**
 SCIENCE, TECHNOLOGY, AND SOCIETY 3 credits
 A study of some interactions between science, technology, and society. Topics include: the scientific community; history of technology; weapons; science, technology, and the arts; technology and change.
- Physics 211. (S)** **D**
 MATHEMATICAL PHYSICS I 3 credits
 Vector analysis, differential equations, introduction to partial differential equations, Fourier series, special functions, and boundary value problems. Emphasis on the physical origins and applications of mathematical techniques. Prerequisite: Mathematics 221.
- Physics 212. (F)** **D**
 MATHEMATICAL PHYSICS II 3 credits
 Complex variables and complex integration, Fourier and Laplace transforms, Green's functions, special function of mathematical physics and boundary value problems. Physical applications stressed. Prerequisite: Physics 211 or permission of instructor.
- Physics 213. (S)** **D**
 THERMAL PHYSICS 3 credits
 Topics treated include the first, second, and third law of thermodynamics; kinetic theory of gases; transport phenomena; Maxwell-Boltzmann statistics; Bose-Einstein and Fermi-Dirac statistics. Three hours lecture. Prerequisite: Physics 105-106.
- Physics 214. (F)** **D**
 ELECTRONICS I 3 credits
 Circuit theory involving resistors, capacitors, inductors, transformers; diodes, bipolar and field effect transistors, power supplies. Familiarization with basic electronic instruments such as oscilloscope, function generator and impedance bridge. Prerequisite: None, but Physics 105-106 recommended. Laboratory required.
- Physics 220. (S)** **D**
 TOPICS IN BIOPHYSICS 3 credits
 Mechanics: loading of muscles and bones, fracturing of bones, energy considerations of insect flight. Optics: mirrors, lenses, aberrations, microscopes, physics of the eye. Fluids: pressure and flow in tubes, viscosity, diffusion applied to membranes. Prerequisites: Physics 105-106 and Biology 151-152, or permission of the instructor.
- Physics 224. (S)** **D**
 ELECTRONICS II 3 credits
 Three terminal devices, transistors and tubes, small signal analysis, DC biasing, multi-stage operation, feedback, special purpose semiconductor devices, operational amplifiers. Prerequisite: Physics 214. Laboratory required.

- Physics 251.**
INTRODUCTION TO DIGITAL COMPUTER ELECTRONICS 3 credits
Review of Ohm's Law, diodes and transistors (treated only as switching devices), Boolean algebra, 7400 Integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: none, but Physics 105-106 recommended. Laboratory required.
- Physics 311-312.**
ELECTRICITY AND MAGNETISM 3 credits
Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves, electromagnetic radiation. Prerequisite: Physics 211 or equivalent.
- Physics 313. (S)**
STATES, WAVES, AND PHOTONS 3 credits
A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bracket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 311.
- Physics 321. (S)**
INTRODUCTION TO ASTROPHYSICS 3 credits
Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.
- Physics 322. (S)**
PLANETARY PHYSICS 3 credits
The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 221.
- Physics 351.**
ADVANCED LABORATORY I 3 credits
Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: Physics 113.
- Physics 352.**
ADVANCED LABORATORY II 3 credits
Similar in purpose to Physics 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: Physics 113.
- Physics 353. (S)**
INTRODUCTION TO MICROPROCESSORS 3 credits
Hardware and software of popular microprocessor chips will be dealt with. E.g. 8080. CPU's, I/O, memories and A/D will be some of the topics treated. Microprocessors available to conduct required experiments. Prerequisite: Physics 251. Laboratory required.
- Physics 411-421.**
MECHANICS 3 credits
Topics include: the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinates systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity. Prerequisites: General Physics, Mathematics 222, Physics 211 or permission of the instructor.

Physics 412.**QUANTUM PHYSICS I**

3 credits

The Schrodinger equation and its application to one dimensional systems and the hydrogen atom. Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states. Prerequisite: Physics 211 or equivalent.

Physics 422.**QUANTUM PHYSICS II**

3 credits

Quantizing the electromagnetic field and applications of quantum mechanics to problems in atomic, nuclear and solid state physics. Prerequisite: Physics 412.

Physics 470.**SPECIAL TOPICS**

3 credits

As interests indicate, special programs may be introduced into the curriculum, discussing specialized areas for group or independent study.

Physics 480-481.**RESEARCH**

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., *Chairman*

Professors: Courtney, Dillon

Associate Professor: Nathans

Assistant Professors: Hill, McGovern

Lecturer: Foley

All political science courses except 251-252 and 480-481 are open to all students.

Required for Major in Political Science: 15 courses

- Political Science 102, 104, 220, 222, 480, 481
- Seven political science electives
- Economics 101-102

Political Science 102. (F, S)**D****AMERICAN FEDERAL GOVERNMENT**

3 credits

An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. *Required of all political science majors.*

Political Science 104. (S, F)**D****WESTERN EUROPEAN POLITICS**

3 credits

A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. *Required of all political science majors.*

Political Science 220. (F, S)**D****INTERNATIONAL RELATIONS**

3 credits

An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. *Required of all political science majors.*

Political Science 222. (S)**D****SURVEY OF POLITICAL THOUGHT**

3 credits

An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom. *Required of all political science majors.*

- Political Science 230. (F 1985)** **D**
POLITICAL GEOGRAPHY 3 credits
 A survey of the geographic factors influencing the real and potential economic and political development of nations.
- Political Science 231. (F 1984)** **D**
U.S. FOREIGN RELATIONS I 3 credits
 A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.
- Political Science 232. (S 1985)** **D**
U.S. FOREIGN RELATIONS II 3 credits
 An analysis of the main problems of American foreign relations from 1945 to the present.
- Political Science 234. (F 1984)** **D**
THE POLITICS OF THE SOVIET UNION 3 credits
 An examination of the major elements that determine the nature of Soviet polity, including the role of the Communist Party, the relationship between the party and government, the growth of dissent within the Soviet Union, and future prospects for Soviet society.
- Political Science 235. (F 1985)** **D**
LATIN AMERICAN POLITICS 3 credits
 An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices.
- Political Science 236. (F 1985)** **D**
NON-WESTERN POLITICAL SYSTEMS 3 credits
 A study of the governmental institutions and political processes of the People's Republic of China and Japan. Particular emphasis on problems of development and modernization.
- Political Science 238. (S, 1984)** **D**
THE MIDDLE EAST AND THE WORLD. 3 credits
 A study of modern Middle Eastern politics, with emphasis on the origins, issues and present stage of the Arab-Israeli conflict; an analysis of Western and Soviet foreign policies in the area, with emphasis on America's mideast diplomacy.
- Political Science 240. (S 1984)** **D**
AMERICAN STATE GOVERNMENT 3 credits
 A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.
- Political Science 241. (S 1985)** **D**
MUNICIPAL GOVERNMENT 3 credits
 A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.
- Political Science 242. (S)** **D**
AMERICAN POLITICAL PARTIES 3 credits
 A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.
- Political Science 243. (F)** **D**
AMERICAN CONSTITUTIONAL LAW I 3 credits
 A case study approach utilizing Supreme Court decisions provides an analysis of the governmental structure of the United States. Principal topics include judicial review, separation of powers, federalism, extent and limit of Congressional and Presidential authority, the commerce and fiscal clauses of the Constitution. (Required of all Public Administration majors).

- Political Science 244. (S 1984)** **D**
THE LEGISLATIVE PROCESS: THE U.S. CONGRESS 3 credits
 The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.
- Political Science 245. (F 1982)** **D**
MODERN POLITICAL IDEOLOGIES 3 credits
 The interrelation of theory and practice and the development of "ideological" thinking explored through an analysis of the conceptions of man, history, state, and revolution espoused by Marxism-Leninism, Fascism-National Socialism, and Anarchism. Readings from original sources: Marx, Lenin, Mussolini, Hitler, Sorel, Camus, and Guevera.
- Political Science 246 (S)** **D**
AMERICAN CONSTITUTIONAL LAW II 3 credits
 A case study approach utilizing Supreme Court decision provides an analysis of the individual's relationship to the government under our Constitution. Principal topics include rights under the early Constitution, the incorporating process, First Amendment rights, procedural rights of the accused, equal protection and political rights. (Strongly recommended: Constitutional Law I).
- Political Science 247. (S 1983)** **D**
BUREAUCRATIC POLITICS AND ADMINISTRATION 3 credits
 Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.
- Political Science 251. (F, S)** **D**
POLITICAL SCIENCE INTERNSHIP I 3 credits
 Designed to give students the opportunity to apply their academic interest to relevant positions in the community. Placements will be provided and the students will be expected to give a comprehensive report on their experiences. A foundation in political and social science is a prerequisite for this course.
- Political Science 252. (F, S)** **D**
POLITICAL SCIENCE INTERNSHIP II 3 credits
 With the permission of the Director, Dr. Philip McGovern, a second semester involving a different experience may be undertaken.
- Political Science 320-321.** **D**
URBAN STUDIES 3-6 credits
 Identical with Economics 320-321.
- Political Science 330. (F 1983)** **D**
THE EDUCATION OF URBAN POPULATIONS 3 credits
 Identical with Education 330.
- Political Science 370. (F, S)** **D**
SPECIAL TOPICS OR INDEPENDENT STUDY 3 credits
 As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.
- Political Science 480. (F)** **D**
SEMINAR I 3 credits
 A study of methods of research and scholarly writing. Directed research and reports on individual assignments. *Required of all political science majors.*
- Political Science 481. (S)** **D**
SEMINAR II 3 credits
 Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. *Required of all political science majors.*



POLITICAL SCIENCE/PUBLIC ADMINISTRATION

(Administered by the Chairman, Political Science Department)

Required for Major in Political Science/Public Administration: 15 courses

- Political Science 102, 222, 240, 241, 243, 247, 480, 481
- Economics 101, 102, 213
- Accounting 101, 102
- Computer Science 151
- Relations 302

PSYCHOLOGY

JOSEPH F. BURKE, F.S.C., Ph.D., *Chairman*

Professors: Dondero, McCarthy, Rooney

Associate Professors: Burke, Filicetti, Gilligan, Kovatch, Oden,
Pfeiffer, Schreiner, Smith

Assistant Professors: Bernier, Falcone, Pritchard

Required for Major in Psychology: Track 1: 12 courses; Track 2: 13 courses; Track 3: 13 courses

Track 1: Pre-Graduate

- Psychology 101, 201, 210, 211, 319, 320
- Four electives in psychology
- Two courses in mathematics

Track 2: General Studies

- Psychology 101, 206, 210, 315, 340, 408
- Five electives in psychology
- Two courses in mathematics

Track 3: Work Psychology

Preparation for careers and graduate study in Consumer Psychology, Human Factors, Industrial/Organizational Psychology, and Personnel Psychology.

- Psychology 101, 201, 210, 211, 306, 319, 320, 360, 460, and SPSS course
- Two courses in mathematics; Computer Science 150 or 151

Psychology 101. (F, S)

GENERAL PSYCHOLOGY I

D

3 credits

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

Psychology 201. (F, S)

ADVANCED GENERAL PSYCHOLOGY

D

3 credits

Introduction to selected content areas of experimental psychology, including psychobiology, sensation and perception, and cognitive processes. Prerequisite: Psychology 101.

Psychology 203. (F, S) DEVELOPMENTAL PSYCHOLOGY	D 3 credits
A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: Psychology 101.	
Psychology 205 (S) AGING: PSYCHOLOGICAL ISSUES	D 3 credits
An introduction to the scientific study of aging. Theories, principles and research findings that are of a psychological nature will be studied. Prerequisite: Psychology 101.	
Psychology 206. (F, S) PERSONALITY DYNAMICS AND ADJUSTMENT	D 3 credits
An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Prerequisite: Psychology 101.	
Psychology 210. (F) STATISTICS I	3 credits
An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: Mathematics 111-112 or equivalent.	
Psychology 211. (S) STATISTICS II	3 credits
An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Psychology 210 or equivalent.	
Psychology 301. (F, S) EDUCATIONAL PSYCHOLOGY	D 3 credits
Identical with Education 203.	
Psychology 306. (S) TESTS AND MEASUREMENTS	3 credits
The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: Psychology 101, 210 or equivalent.	
Psychology 312. (F 1984; F 1986) BAYESIAN STATISTICS FOR SOCIAL SCIENTISTS	3 credits
Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments. Prerequisite: A two-semester course in introductory statistics.	
Psychology 315. (F, S) ABNORMAL PSYCHOLOGY	D 3 credits
An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, course, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: Psychology 101 or permission of chairman.	
Psychology 319. (F) EXPERIMENTAL PSYCHOLOGY I	4 credits
A laboratory course designed to introduce the student to the classical psychological experiments and to train him in the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: Psychology 201 and 211 or permission of chairman. Three hours lecture, two hours laboratory.	

Psychology 320. (S)**EXPERIMENTAL PSYCHOLOGY II**

4 credits

Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: Psychology 319. Three hours lecture, two hours laboratory.

Psychology 325. (F, S)**READINGS IN PSYCHOLOGY**

3 credits

Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: Psychology 101.

Psychology 330. (S)**COGNITIVE PSYCHOLOGY**

3 credits

A systematic study of the research and theories developed to explain human memory, language, thinking, and consciousness. Prerequisite: Psychology 201.

Psychology 340. (S)**METHODOLOGY FOR STUDIES AND RESEARCH**

3 credits

A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: Psychology 101, 210.

Psychology 350. (F, S)**EFFECTIVE COMMUNICATION**

3 credits

A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

Psychology 360. (S)**INDUSTRIAL AND BUSINESS PSYCHOLOGY****D**

3 credits

A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry. Prerequisite: Psychology 101

Psychology 364. (S)**SOCIAL PSYCHOLOGY****D**

3 credits

A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others. Prerequisite: Psychology 101.

Psychology 406. (F, S)**COUNSELING THEORIES AND PRINCIPLES****D**

3 credits

Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: Psychology 101.

Psychology 407. (F)**THEORIES OF LEARNING**

3 credits

An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: Psychology 201.

Psychology 408. (F)**THEORIES OF PERSONALITY**

3 credits

A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: Psychology 101.

Psychology 409. (F)**HISTORY AND SYSTEMS OF PSYCHOLOGY**

3 credits

An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: junior or senior standing as psychology major.

Psychology 420. (S)**PHYSIOLOGICAL PSYCHOLOGY**

3 credits

An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: Psychology 201. Two hours lecture, two hours laboratory.

Psychology 460**HUMAN FACTORS**

3 credits

Human Factors deals with the study of man and his working and living environments, and the application of this knowledge to practical problems encountered in the home, business and industry. Prerequisites: Psychology 211, 360.

Psychology 470-471. (F, S)**SPECIAL TOPICS IN PSYCHOLOGY**

3-6 credits

Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of mob action, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

Psychology 480. (F)**SEMINAR I**

3 credits

Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.

Psychology 481. (S)**SEMINAR II**

3 credits

A continuation of Psychology 480 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: junior or senior standing as psychology major.

Psychology 485-486. (F, S)**PSYCHOLOGICAL RESEARCH OR PRACTICUM**

3-6 credits

Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Students preparing for careers or graduate study in clinical areas of psychology can select from numerous practicum placements. Students in the Work Psychology track may select a practicum placement available with Sun Oil Company or other local businesses. Program planned in advance. Prerequisite: junior or senior standing as a psychology major. One or two terms.

RELIGION

DAVID P. EFROYMSON, Ph.D., *Chairman*

Professors: Biechler, Efroymsen, Kelly

Associate Professors: Davis, Keenan

Martin, Schepers

Assistant Professors: Grosnick, Halligan, Harrington

Lecturers: Boni, Devlin, Echelmeier, Frank, Luetzow,

Mowrey, Reizburg, Van Everbroeck, Wright

Required for Major in Religion: 12 courses

- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and Religion 480. At least one of these electives must be in a religious tradition outside of Judeo-Christianity.
- Religion majors may choose the major program as described above or:

Religion-Education: The religion major requirements (chosen, with the guidance of the Chairperson, in view of a career in teaching), plus Education 203, 301, 470-1-2.

Note: Religion is a subject not accredited by the various states; therefore the Pennsylvania Instructional I Certificate is not issued to Religion-Education majors. This forms no impediment whatever to placement in schools which teach religion.

GENERAL EDUCATION

Religion 161. (F, S)

THE BIBLE AS RELIGIOUS LITERATURE

3 credits

The origins, evolution, and formation of the Jewish and Christian Scriptures; the ideas of the people who produced them, and the Near Eastern cultures and literature which contributed to them.

Religion 162. (F, S)

PROBLEMS OF FAITH IN THE CHRISTIAN WEST

3 credits

An inquiry into the development of the concept of faith in important periods in the history of Christian thought. The course includes a critical examination of crucial issues associated with faith, such as the significance of Jesus Christ, the relationship between faith and reason, the contribution of the Reformation and of existentialism to the understanding of faith, and the atheistic challenge to faith.

Religion 163. (F, S)

THE DYNAMICS OF RELIGION

3 credits

A study of the diverse patterns of thought, behavior, and structures that express human religious experience. Themes are selected across the great religious traditions and from tribal and archaic cultures. The course seeks to develop an awareness of the diversity of religious expression and a critical appraisal of the methods used in interpreting this central experience.

Religion 164. (F, S)

RELIGION AND THE CONTEMPORARY SEARCH FOR SELF

3 credits

An inquiry into the contemporary meaning of self-discovery, seen in the context of those socio-religious values which contribute to an individual's sense of personal identity. A study of religion as an expression of the deepest dimension of human life leading to an appreciation of the possible variety of such expressions in terms of personal self-understanding.

Religion 167. (F, S)

CATHOLICISM IN THE MODERN WORLD: PROBLEMS AND CHALLENGES

3 credits

Religious and social forces shaping present-day Catholicism. Vatican II: a catalyst for change. Liturgical reform. Biblical Renewal. Ecumenism. Women's movement. Freedom and authority in Church structures. The challenge to Catholic education. Contemporary movements: charismatic religion, traditionalism. Influence of American culture on the Church in the United States.

SECTION A: BIBLICAL STUDIES

Religion 210. (F)

OLD TESTAMENT THEMES

D
3 credits

A study of the origin and development of biblical traditions and theological themes: God, man, the meaning of life, the Exodus theme, prophecy, etc. Such ideas will be studied in both their Old Testament context as well as their relation to the New Testament.

Religion 211. **D**
CONTEMPORARY NEW TESTAMENT ISSUES 3 credits
Specific problems of New Testament Christianity as reflected in its literature. Content to be specified at registration.

Religion 212. (F) **D**
THE PROPHETS OF ANCIENT ISRAEL 3 credits
Prophecy and prophetic literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel. Theological message of the biblical prophets.

Religion 310. (F) **D**
THE SYNOPTIC GOSPELS 3 credits
How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship. These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

Religion 311. (S) **D**
THE NEW TESTAMENT WORLD OF JOHN OR PAUL 3 credits
A critical appraisal of the literary structure and themes of the writings of John or Paul. The Jewish, Hellenistic, and early Church influence in their composition will be examined. These New Testament writings as a reflection of and as an influence on their times. Writings of John studied in odd-numbered years; those of Paul in even-numbered years. May be repeated for credit *if the two different contents are taken*.

SECTION B: THEOLOGICAL STUDIES

Religion 220. (F) **D**
THE CHURCH: ISSUES AND PROBLEMS 3 credits
A brief study of the origins of the Church, and an examination of the various modes in which Church has been and can be understood. Social structure and dynamics of the Church and her mission in today's world.

Religion 221. (F) **D**
ISSUES IN CHRISTOLOGY: JESUS AND HIS ACHIEVEMENT 3 credits
The person and mission of Jesus in post-biblical theology. Emphasis on contemporary interpretations of Jesus as Man and God.

Religion 222. (F) **D**
THE SACRAMENTS 3 credits
An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.

Religion 223. (F) **D**
CONTEMPORARY MORAL PROBLEMS 3 credits
Study/discussion of selected current issues: War. Racism. Sexual Conduct. Abortion. Euthanasia. Women's Rights. Capital Punishment. Etc.

Religion 224. (S) **D**
HUMAN EXISTENCE AND RELIGIOUS BELIEF 3 credits
An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.

Religion 320. **D**
 THEOLOGICAL ISSUES 3 credits
 Selected theological topics of current controversy. Content to be specified at registration.

Religion 323. (S) **D**
 BIOMEDICAL PROBLEMS 3 credits
 Study/discussion of selected ethical dilemmas arising from recent advances in biology, medicine, and the behavioral sciences. E.g., Abortion/Euthanasia. Death. Genetic Intervention. Informed Consent. Human Experimentation. Etc. *Presupposes no special knowledge of biology or medicine.*

Religion 325. (S) **D**
 A CONTEMPORARY THEOLOGY OF MARRIAGE 3 credits
 An investigation into the possible meanings of marriage with the purpose of discovering the ways in which this human reality can become a saving mystery that helps people to become what they are supposed to be.

SECTION C: HISTORICAL STUDIES

Religion 230. (S) **D**
 RELIGION IN AMERICA 3 credits
 A study of the major religious movements within the Roman Catholic Church and Protestant churches in the United States from the American Revolution to the present day. The course will investigate the theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, and the Atomic Age.

Religion 239. (F) **D**
 THE REFORMATION AND THE CATHOLIC RESPONSE 3 credits
 A critical audition of the religious voices of the Reformation era, with attention to their origins, context, and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

Religion 330. (S) **D**
 EARLY CHRISTIANITY: CRISIS AND PROCESS 3 credits
 An in-depth exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

Religion 331. (F) **D**
 DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES 3 credits
 A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

Religion 332. (S) **D**
 NINETEENTH-CENTURY RELIGIOUS THOUGHT 3 credits
 A critical examination of the great religious movements of the nineteenth century that have most contributed to the present religious situation. This course will focus on the encounter between Christian thought and nineteenth-century philosophy, history, and natural science. Special attention will be given to Newman and the Oxford Movement; Feuerbach and the post-Hegelian criticism; the religious thought of Marx and Engels; Strauss and history; Darwin and the challenge of science. The advent of liberalism in Protestant and Catholic circles.

SECTION D: RELIGIOUS STUDIES

Religion 240. (F) **D**
THE RELIGIONS OF INDIA 3 credits

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

Religion 241. (S) **D**
BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN 3 credits

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto, Modern phenomena: Soka Gakkai and Maoism.

Religion 242. (F, S) **D**
JUDAISM 3 credits

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

Religion 243. (S) **D**
RELIGIOUS ATTITUDES IN MODERN LITERATURE 3 credits

An introduction to the meeting between religion and literature as found in the writings of Dostoevsky, Kafka, Bernanos, Eliot, Camus, Beckett, Kazantzakis, and in some of the poetry of Yeats, Auden, Frost, Roethke. A variety of literary forms will be examined to discern the writers' religious intentions. Topics include: Can an "atheist" be religious? Is God present in a book which makes no mention of him? What is meant by the term "religious"? Traditional issues — the problem of evil, the moral dilemma, human freedom — explored. Identical with English 243.

Religion 244. (S) **D**
ISLAM 3 credits

Background and development: the prophet, the Qur'an, Muslim traditions and values; theological development, inner tensions, contemporary movements, confrontation with the non-Muslim world.

SECTION E: SPECIAL STUDIES

Religion 270, 370, 470. (F, S) **D**
SPECIAL TOPICS IN RELIGION 3 credits

Content of the course will be announced whenever it is offered. May be repeated for credit.

Religion 480. (F) **D**
SEMINAR 3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by chairman. Prerequisite: 15 hours of religion. May be taken in junior or senior year.

SOCIOLOGY

FINN HORNUM, M.A., *Chairperson*
Professor: J. F. Connors
Associate Professors: Coffee, Leonard
Assistant Professors: Bird, J. T. Connors,
Hornum, Montgomery, Simon, Stevenson, Stull
Instructor: Otten

Required for Major: Sociology 101, 301-302, 310, 480-481, three 200-300 level sociology courses, and three electives in sociology, social work or criminal justice. Also recommended:

Economics 411, 412; History 225, 233, 237; Political Science 102, 245; Psychology 203, 206, 315, 350.

Sociology 101. (F, S) **D**
INTRODUCTION TO SOCIOLOGY 3 credits

An examination of sociological concepts, theories and methods with applications to American society as well as cross-cultural comparisons.

Sociology 102. (F, S) **D**
CONTEMPORARY SOCIAL PROBLEMS 3 credits

A sociological analysis of significant social problems in contemporary society. Such selected social problems as poverty, racism, sexism, delinquency, crime, mental illness and family and community disorganization will be surveyed. Each semester one section of this course will focus on a specific social problem area.

Sociology 111. (F, S) **D**
MARRIAGE AND FAMILY 3 credits

Study of marriage and the family as social institutions. A consideration of the historical development of the family, variations of family structure in contemporary societies, and current trends in American family patterns.

Sociology 203. (F) **D**
SOCIOLOGY OF WORK 3 credits

Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of bureaucratization. Occupational subcultures such as law, medicine, public service, the military, and education considered.

Sociology 207. (S) **D**
THE CITY: CONFLICT AND CHANGE 3 credits

A study of world cities, their growth and impact on personality, urban violence and its control, fragmentation, economic problems and city/suburban conflicts. Efforts at neighborhood development and metropolitan planning will also be discussed.

Sociology 208. (F) **D**
POPULATION AND ECOLOGY 3 credits

A study of the changes in mortality, fertility and fertility control, migration, consumption patterns and population policies, the causes of these changes and their impact on standards of living and the quality of life.

Sociology 209. (S) **D**
SOCIOLOGY OF RELIGION 3 credits

A study of churches, denominations, cults and their influence on members as well as their involvement in social stratification and social change.

Sociology 210. (S) **D**
SEX, POWER, AND SOCIALIZATION 3 credits

An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family. Special attention to the effects of class and race on gender role formation.

Sociology 212. (F, S) **D**
ETHNICITY AND RACE IN THE UNITED STATES 3 credits

An analysis of the structure and dynamics of dominant/minority relations in historical and contemporary contexts. Emphasis on the sociological analysis of ethnic and racial discrimination and inquiry into the sources of conflict between dominant and minority groups.

Sociology 213. (F) HUMAN NATURE, CULTURE AND SOCIETY	D 3 credits
An anthropological study of the origin and descent of humans and of the role of culture in explaining the variations and constants in human behavior.	
Sociology 301. (F) SOCIAL STATISTICS I	3 credits
A general introduction to such descriptive statistics as central tendency measures, variability and regression. Analysis of cross-tabulated data will be facilitated through the utilization of computer software programs. No prior knowledge of computers assumed.	
Sociology 302. (S) SOCIAL STATISTICS II	3 credits
Basically a course in inferential statistics beginning with a discussion of probability, binomial distributions, and normality. Both parametric and non-parametric statistics covered. Continued use of computer technology. Prerequisite: Sociology 301 or permission of instructor.	
Sociology 305. (F) SOCIETY AND THE INDIVIDUAL	D 3 credits
The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: Sociology 101 or 102, or permission of instructor.	
Sociology 306. (F) BUREAUCRACY AND SOCIETY	D 3 credits
An examination of the nature and effects of modern, large-scale organizations. Focus on both private sector corporations and public sector bureaucracies. Prerequisite: Sociology 101 or 102, or permission of instructor.	
Sociology 308. (S) CLASS, STATUS, AND POWER	D 3 credits
A study of economic, social and political inequalities. Emphasis on the causes, patterns, and consequences of such inequalities. The United States compared with other industrial as well as non-industrialized nations. Prerequisite: Sociology 101 or 102, or permission of instructor.	
Sociology 309. (S) HEALTH AND SOCIETY	D 3 credits
A basic survey of how individuals are socialized to think about, and are treated by, those in the health professions. A cross-national perspective will be assumed. Topics include: malpractice, population control, human experimentation, deviance and stigmatization.	
Sociology 310. (F, S) SOCIOLOGICAL THEORY	D 3 credits
A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu. Prerequisite: Sociology 101 or 102, or permission of instructor.	
Sociology 363. (F) SOCIAL POLICY I	D 3 credits
An historical look at the development of the welfare state in the United States. Particular attention to traditions, laws, and court decisions concerning poor people, racial minorities, immigrants, and women. Identical with Social Work 363.	
Sociology 364. (S) SOCIAL POLICY II	D 3 credits
Explores contemporary social policies in the U.S. Topics selected from the following: health, aging, mental health, child welfare, family, welfare, and educational policy. Domestic and international alternatives to current policies discussed. Identical with Social Work 364.	

Sociology 270, 370, 470. (F, S)
SPECIAL TOPICS IN SOCIOLOGY

D
3 credits

Designed to meet current developments in sociological specialties. Topics include deviance, social change, physical anthropology, mental health and social work, criminalistics, sociology of conflict, counseling methods, gerontology. Students should check with the department about whether course meets distribution requirement.

Sociology 480. (F)
RESEARCH SEMINAR I

D
3 credits

An overview of research methodology. Such research data collection methods as questionnaire designs, interviewing and observations will be discussed. Topics covered will include the ethics of human experimentation and evaluation techniques.

Sociology 481. (S)
RESEARCH SEMINAR II

3 credits

Original research in one area of social reality employing a research method of the student's choosing.

CRIMINAL JUSTICE

Associate Professor: Coffee
Assistant Professors: Hornum, Stevenson
Instructor: Otten

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Required for Major: Criminal Justice 221, 222, 385, 485-486 and two additional criminal justice courses; Sociology 101, 301-302, 310 and two 200-300 level sociology courses. Also recommended as appropriate to career objectives: Accounting 101, 102; Computer Science 151, 153; Management 201, 202, 306; Political Science 102, 240, 241, 243, 247; Psychology 101, 206, 306, 315, 364, 406, 408; Social Work 361-362, 363-364.

Criminal Justice 221. (F)
CRIME AND ITS CAUSES

D
3 credits

A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and development of the criminal law, criminal behavior systems.

Criminal Justice 222. (S)
INTRODUCTION TO CRIMINAL JUSTICE

D
3 credits

A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

Criminal Justice 223. (F)
CRIMINAL LAW

D
3 credits

Designed to expose the student to the basic concepts and issues of criminal law: foundations of the law, legal elements of crime, legal requirements for defenses and punishments. The Pennsylvania Crimes Code used as reference. Attention to the sociological implications of these legal issues.

Criminal Justice 224. (S)
POLICE: ORGANIZATION AND FUNCTIONS

D
3 credits

A study of the organization, power, and functions of the police. Topics include the police organizational structure, such police responsibilities as patrol, arrest and investigation, police community relations, and other topical issues on police and society.

Criminal Justice 385. (F, S)
THEORIES OF DEVIANCE

3 credits

An intensive analysis of contemporary theories of deviant behavior. Theories examined through seminar discussions of primary materials and critiqued by consideration of research findings. Social policy implications discussed and specific criminal justice programs considered in the light of these theories.

Criminal Justice 386. (S)
SYSTEMS OF CRIMINAL BEHAVIOR

3 credits

Selected criminal behavior systems examined in depth through readings, group projects and field interviews. Offerings include such forms of criminal behavior as juvenile delinquency, organized crime, elite deviance, violent crime, crimes without victims, and international terrorism.

Criminal Justice 485-486. (F, S)
FIELD SEMINAR IN CRIMINAL JUSTICE

6-12 credits

Field placement in law enforcement, judicial and correctional agencies, evaluative seminar sessions with instructors, and completion of a field-oriented project. Students may elect to take both courses in one semester (four days per week, six hours per day in the field and six hours of seminar session per month). Alternatively, students may elect to take the courses sequentially over two semesters (two days per week, six hours per day in the field and two hours seminar per month). Students are placed in criminal justice agencies related to their interests and receive individual supervision by a field supervisor employed by the agency and a faculty liaison person. Prerequisite: Criminal Justice 385.

SOCIAL WORK

CSWE accredited program

Professor: J. F. Connors

Assistant Professors: J. T. Connors, Montgomery, Simon

Lecturers: Brunn, Waites

Required for Major: Social Work 202, 361-362, 363-364, 461-462, 463-464, 465; Psychology 101, 203; Economics 203; a political science course; Biology 156; Sociology 101, 301-302, 310; and two 200-300 level Sociology courses.

Students are encouraged to use their free electives to build a concentration in their personal areas of interest, e.g., Business Administration, Criminal Justice, Psychology, Spanish, Political Science, Urban Studies, Women's Studies.

Social Work 202. (F, S)
INTRODUCTION TO SOCIAL WORK AND SOCIAL WELFARE

D
3 credits

Foundation for all other social work courses in that it provides a framework of analysis for practice and policy courses. Provides a basic understanding of fundamental human needs, of populations at risk in this society, and of the social service delivery system.

Social Work 210. (S)
SEX, POWER AND SOCIALIZATION

D
3 credits

An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family. Special attention to the effects of class and race on gender role formation. Identical with Sociology 210.

Social Work 361. (F)**SOCIAL WORK THEORY AND PRACTICE I**

3 credits

Principles of interviewing and developmental helping skills. Roleplaying, case studies, and videotaping will be used. Instruction and practice in social welfare and related agencies which provide a range of generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: Social Work 202 or permission of instructor.

Social Work 362. (S)**SOCIAL WORK THEORY AND PRACTICE II**

3 credits

Examines casework, group work, and community organization methods which serve as a basis for generalist practice. A range of generalist techniques studied as preparation for practice with individuals, groups and other systems. Instruction and practice in social welfare and related agencies which provide a range of generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: Social Work 361.

Social Work 363. (F)**SOCIAL POLICY I**

D

3 credits

An historical look at the development of the welfare state in the United States. Particular attention to traditions, laws, and court decisions concerning poor people, racial minorities, immigrants, and women. Identical with Sociology 363.

Social Work 364. (S)**SOCIAL POLICY II**

D

3 credits

Explores contemporary social policies in the U.S. Topics selected from the following: health, aging, mental health, child welfare, family, welfare, and educational policy. Domestic and international alternatives to current policies discussed. Advocacy and lobbying processes highlighted. Identical with Sociology 364.

Social Work 461-462. (F, S)**SEMINAR IN SOCIAL WORK I AND II**

3-6 credits

Building upon the knowledge, attitudes, and skills developed in the junior-level skills and methodologies courses, these senior seminars deepen students' understanding of generalist intervention strategies. The task centered model will be applied to micro and macro-level practice situations. Students will be given an opportunity to evaluate their own practice through empirical testing

Social Work 463-464. (F, S)**FIELD INSTRUCTION I AND II**

6-12 credits

Instruction in advanced practice skills. Students spend two full days per week in educationally-directed field placements. To be taken concurrently with Social Work 461-462.

Social Work 465. (S)**PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK**

3 credits

Questions of values and ethics underlying professional social work practice are explored through lectures, analysis of practice, or participation at professional meetings. Philosophical, political, and sociological perspectives will provide the framework for analysis.

URBAN STUDIES CONCENTRATION

Coordinated by: DR. RICHARD T. GERUSON, Economics Department

Designed as a minor for students wishing to focus their electives on urban questions.

Required:

- Economics/Sociology/Political Science 320, 321
- Three of the following only with approval of coordinator:
 - Sociology 207, 208, 212, 306, 308, 330, 470
 - History 144, 224, 233, 237
 - Economics 203, 404, 470
 - Political Science 241, 247, 330
 - Education 330
 - English 210, 302
 - Psychology 364
 - Humanities 100 (Evening Division)

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WOMEN'S STUDIES CONCENTRATION

Coordinated by: CARYN McTIGHE MUSIL, Ph.D., *English*

ARLEEN DALLERY, Ph.D., *Philosophy*

JUDITH NEWTON, Ph.D., *English*

BARBARA LEVY SIMON, Ph.D., *Sociology*

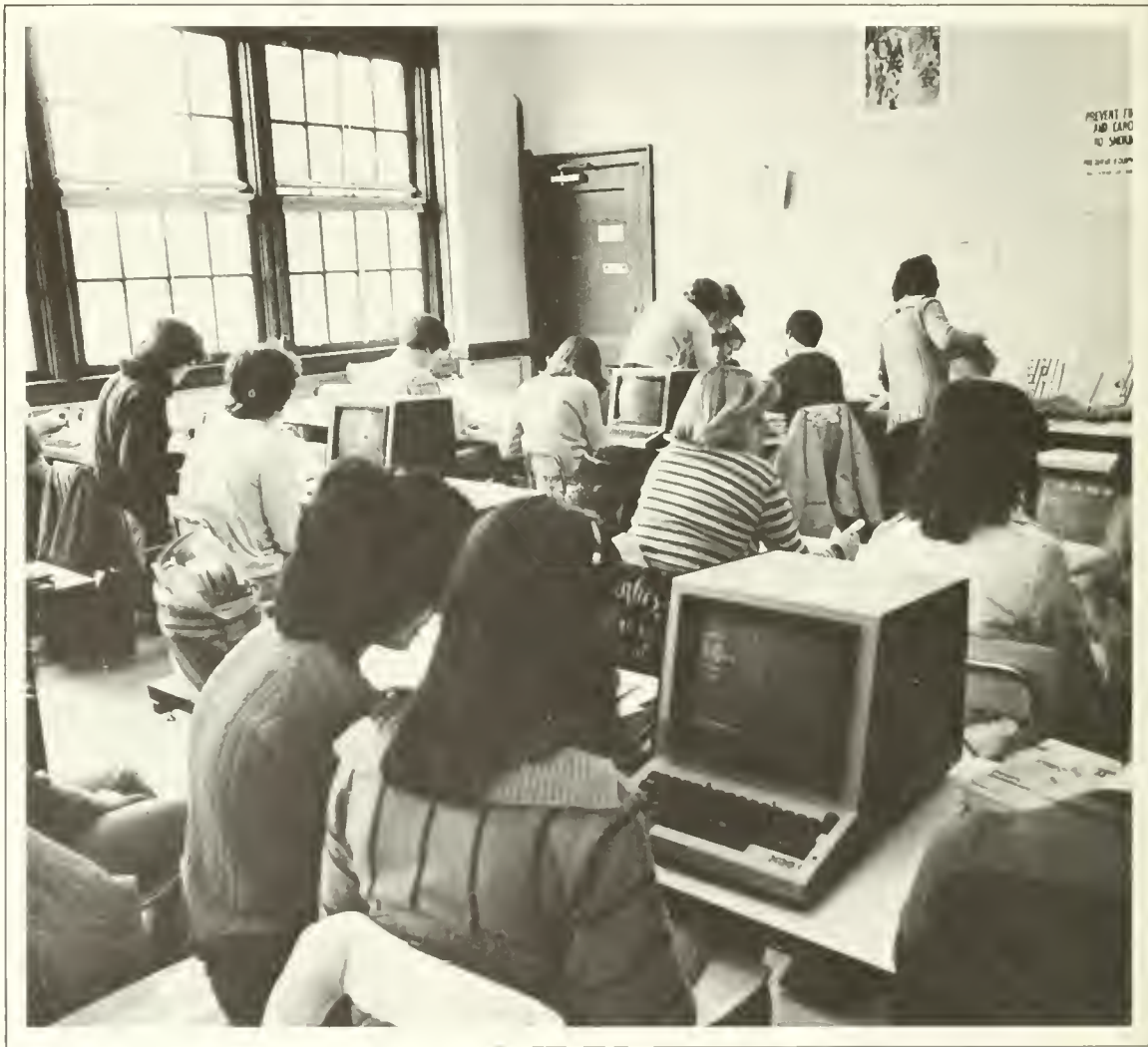
Designed as a minor for students of any major who wish to use a portion of their distribution requirements and electives to explore the limitations and resources of women's lives and to examine gender as a category of cultural and historical analysis.

Required:

Six of the following courses:

- English 160
- English 204
- English 314
- History 228
- History 229
- Sociology 210
- Special Topics (To be announced by individual departments)
- Independent Study (requires formal approval of Dean)
- Internship (requires formal approval of Dean)

Business Administration



The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The current program represents several years of review of the educational needs of students entering the business world and graduate schools and the needs of the College's urban environment. Specific consideration has been given to the students' educational background and age, their experience, their expectations and goals, as well as the urban community—its structure, interests, and attitudes. The program prepares students for managerial responsibilities and provides an enduring base for personal development.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in depth in a professional area as a basis for future career development. The general education studies provide the student with an understanding of himself, the humanistic and philosophic aspects of man, Christian thought, and the social, mathematical, and computing sciences relevant to business practice: the business core and professional studies provide a broad understanding of business administration and prepare students for a career or for graduate education.

DEGREE PROGRAM

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits, about half of which may be taken in business and economics. The general education and professional studies are pursued simultaneously by the student throughout the four years of undergraduate study. In the junior year, a student begins to specialize in a professional option or "major." Professional options are available in accounting, finance, management, personnel and labor relations, marketing, and quantitative analysis. Special options may be planned to meet individual needs. A cooperative program with St. Joseph's University provides students with the opportunity to become certified to teach business courses at the secondary level.

PREPARATION FOR TEACHING

Students who wish to teach courses in business administration at the secondary level may receive state certification at the secondary level by participating in a cooperative program involving La Salle and St. Joseph's University. Under this program, the student completes his General Education and Distribution requirements at La Salle, along with course work in either accounting or marketing. Education courses are pursued both at La Salle and St. Joseph's. The student receives his degree from La Salle and his certification from St. Joseph's. Arrangements for program may be completed in consultation with the dean.

CURRICULUM

The curriculum for business administration students has five parts:

1. General Education — 7 courses (21 credits)
2. Distribution Requirement — 9 courses (27 credits)
3. Business Core — 10 courses (30 credits)
4. Professional Studies — 4 courses (12 credits)¹
5. Electives — 10 courses (30 credits)²

¹The Accounting Option requires 8 courses (24 credits) beyond the Business Core.

²The Accounting Option has 6 courses (18 credits) as electives. Two courses (6 credits) in business and economics and 4 courses (12 credits) in arts and sciences are recommended as electives. For other options, 4 courses (12 credits) in business and economics and 6 courses (18 credits) in arts and sciences are recommended as electives.

General Education

These studies are aimed at providing an enduring base for personal development and an awareness of moral values and social responsibility. Normally these courses will be completed by the end of the sophomore year. They include:

English Composition 1 semester

Literature 2 semesters

Philosophy 2 semesters

Religion 2 semesters

(May be waived if writing competence is established.)
(English or foreign literature in English.)

Distribution Requirement

This requirement provides a measure of balance in the liberal arts and sciences, the major field, while at the same time permitting an element of flexibility so that each student may tailor his program to some degree to fit his interests and needs. The Distribution Requirement is normally completed by the end of junior year. *N.B.*: mathematics and economics must be selected by all students in the School of Business Administration. General Education courses may not be taken to fulfill Distribution Requirements.

Business administration students may choose two courses from two of the three areas: Area I, III, or V.

Area I

English
History

Area III

Religion
Philosophy
Fine Arts
(Music or Art)

Area V

Biology
Chemistry
Geology
Physics

Area II

Foreign Languages
Mathematics¹

Area IV

Economics²
Political Science
Sociology
Psychology

¹Students must take Mathematics 111 and 112. Mathematics 120 may be used to satisfy the Mathematics requirement. All students must take Computer Science 151 or equivalent.

²Economics 101-102 is required of business students.

Business Core

Course work consists of study in the several areas of business practice and in analytical methods and techniques. This foundation is intended to develop a broad understanding of business problems. The following courses constitute the core:

Functional Activities: Accounting 101, 102; Finance 201, 300; Management 300; Marketing 201; Law 201.

Analytical Techniques: Quantitative Analysis 213, Economics 302, Management 201.

Professional Studies

These courses provide an intensive learning experience in one facet of business practice and serve as a basis for future career development. Professional options are offered in:

Accounting
Finance
Management

Marketing
Personnel and Labor Relations
Quantitative Analysis

Special Options

The professional option consists of 12 credits, normally in a functional area beyond the courses required in the business core. An exception to the 12 credit requirement is the accounting option, for which a set of course requirements has been established as necessary preparation for the Certified Public Accounting examination in Pennsylvania.

You may choose your professional option when you apply for admission or at some time during your first two years of college. If you wish to pursue a dual major, you must obtain permission from both chairpersons. If you wish to choose a special option, you must obtain the dean's approval of your program.

Free Electives

A student may choose to concentrate his free electives in a particular field or may use these electives to diversify his background or broaden his interests. To achieve a balance between liberal arts and professional studies, the school recommends that a student take no more than 12 credits as electives in business administration or economics.

MODEL ROSTER FOR PROFESSIONAL OPTION IN ACCOUNTING

FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math. 111	Math. 112
Eng. 101	Gen. Ed. Lit.
Gen. Ed. Rel.	Gen. Ed. Phil. A

JUNIOR YEAR

Fall	Spring
Acc. 303 (or 304)	Acc. 304 (or 303)
Law 201	Mgt. 300
Fin. 300	Mktg. 201
Eco. 302	C. Sc. 151
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V

SOPHOMORE YEAR

Acc. 201	Acc. 202
Fin. 201	Quan. Anal. 213
Mgt. 201	Gen. Ed. Lit.
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Gen. Ed. Rel.	Gen. Ed. Phil. B

SENIOR YEAR

Acc. 405	Acc. 406
Acc. 407 (or 480)	Acc. 480 (or 407)
Elective	Elective
Elective	Elective
Elective	Elective

MODEL ROSTER FOR PROFESSIONAL OPTIONS IN FINANCE, PERSONNEL AND LABOR RELATIONS, MANAGEMENT, MARKETING, AND QUANTITATIVE ANALYSIS

FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math 111	Math 112
Eng 101	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.

JUNIOR YEAR

Fall	Spring
Law 201	Mgt. 300
or Mktg. 201	or Fin. 300
Major Course	Major Course
Eco. 302	C. Sc. 151
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Arts & Sci. Elect.	Arts & Sci. Elect.

SOPHOMORE YEAR

Fin. 201	Mgt. 201
Quan. Anal. 213	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.
Dist. Req. — Areas I, III, or V	Dist. Req. — Areas I, III, or V
Law 201	Mgt. 300
or Mktg. 201	or Fin. 300

SENIOR YEAR

Major Course	Major Course
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

ACCOUNTING

JOSEPH MARKMANN, C.P.A., *Chairman*

Christian R. Lindback Professor of Business Administration: Joseph Markmann

*Associate Professors: F. Guerin, Hanratty, Kaiser, Markmann,
Reardon, Sweeney*

Assistant Professors: Bader, Brazina, Kennedy, Weaver, Zook

Instructors: Leach, Massimini, Sigmond

Lecturer: Fitzgerald

Required for Professional Option in Accounting: 8 courses

- Accounting 201, 202, 303, 304, 405, 406, 407, 480

Accounting 101. (F)

PRINCIPLES OF ACCOUNTING I

3 credits

Training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership, and corporation.

Accounting 102. (S)

PRINCIPLES OF ACCOUNTING II

3 credits

The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include depreciation methods, inventory valuation, alternative methods of obtaining capital and the measurement and control of costs within the corporate entity. Prerequisite: Accounting 101.

Accounting 201. (F)

ACCOUNTING THEORY I

3 credits

Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, current liabilities, long-term investments, and their presentation on the balance sheet. Prerequisite: Accounting 102.

Accounting 202. (S)

ACCOUNTING THEORY II

3 credits

Detailed presentation of theory as applied to plant and equipment, intangible assets, long-term debt, capital stock and surplus; correction of errors of prior periods; analysis of financial statements; statement of application of funds. Prerequisite: Accounting 201.

Accounting 303. (F, S)

COST ACCOUNTING

3 credits

Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of the place of cost accounting in modern enterprises. Prerequisite: Accounting 102.

Accounting 304. (F, S)

AUDITING

3 credits

A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics, and legal liability. Prerequisite: Accounting 202.

Accounting 310. (F)**FINANCIAL STATEMENT ANALYSIS**

3 credits

Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: Accounting 102.

Accounting 313. (F)**ADVANCED COST ACCOUNTING**

3 credits

Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: Accounting 303.

Accounting 405. (F)**ADVANCED ACCOUNTING THEORY AND PROBLEMS I**

3 credits

A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: Accounting 202.

Accounting 406. (S)**ADVANCED ACCOUNTING THEORY AND PROBLEMS II**

3 credits

A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisite: Accounting 405.

Accounting 407. (F, S)**INCOME TAX**

3 credits

Study of Federal tax code as applied to individuals, partnerships, and corporations including exclusions, inclusions, deductions, gains and losses. Review of fiduciary and estate and gift tax.

Accounting 450. (F, S, Summer)**COOPERATIVE EDUCATION**

3 credits

Consult with department chairman. Prerequisite: Accounting 202.

Accounting 480. (F, S)**ACCOUNTING SEMINAR**

3 credits

Research in selected topics of accounting theory. Prerequisite: senior standing.

Accounting 483. (F)**ANALYSIS OF ACCOUNTING STANDARDS**

3 credits

A review of the interaction of Congress, the SEC and accounting bodies (AICPA, APB, and FASB) in the evolution of accounting standards. APB opinions and FASB statements critically evaluated in light of the various objectives of our accounting system. Prerequisite: senior standing and approval of the chairman.

Accounting 484. (S)**ACCOUNTING REVIEW**

3 credits

Serves as capstone to the four-year accounting program. An intensive review of accounting theory, managerial cost, auditing standards, and federal taxation. Emphasis on the direct application of theory through the solving of comprehensive and complex problems in accounting, auditing, and taxation. A thorough review for career development and graduate studies; provides sound preparation for the uniform examination given for certified public accountants. Prerequisite: senior standing and approval of the chairman.

BUSINESS LAW

(See Law)

FINANCE

JOSHUA BUCH, Ph D., *Chairman*

Associate Professors: Barenbaum, Buch, Kelly, Woods

Assistant Professors: Olson, Rhoda, Schubert

Instructors: McCann, Taylor

Required for Professional Option in Finance: 4 courses

- Finance 304, 401
- Two courses from among the following: Finance 301, 302, 403, 404, 480

Finance 201. (F, S)

PRINCIPLES OF FINANCE

3 credits

An investigation of the nature and concepts of money and credit; the financial structure of the United States and the sources of credit; effects of Federal Reserve and U.S. Treasury actions on financial institutions.

Finance 300. (F, S)

FUNDAMENTALS OF FINANCIAL MANAGEMENT

3 credits

An introduction to the essentials of financial management with emphasis on working capital management, capital budgeting, capital structure, and risk analysis. Prerequisites: Accounting 102, Mathematics 111, Quantitative Analysis 213.

Finance 301. (F, S)

INTRODUCTION TO INVESTMENTS AND SECURITIES MARKETS

3 credits

A study of the stock market, its trading operations and regulations. Development of investments policies for personal programs as compared to institutional uses of funds. Prerequisites: Finance 201

Finance 302. (S)

INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT

3 credits

Development of fundamental techniques of security analysis in order to determine investment characteristics and evaluate existing holdings of securities. Prerequisite: Finance 301 or 401.

Finance 304. (F, S)

ADVANCED CORPORATION FINANCE

3 credits

Case studies and critical analysis of current literature in specific areas of financial management. Prerequisites: Finance 300, Quantitative Analysis 213.

Finance 401. (F, S)

FINANCIAL MARKETS AND INSTITUTIONS

3 credits

Analysis of policies, practices, and operating results of financial institutions and the money market. Prerequisites: Finance 201, 300.

Finance 403. (F, S)

INTERNATIONAL COMMERCE

3 credits

Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of U.S. firms having foreign operations. Prerequisites: Marketing 201, Finance 201.

Finance 404. (S)
PUBLIC FINANCE

3 credits

An analysis of the revenue of expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Same as Economics 404. Prerequisites: Economics 101-102, Finance 201.

Finance 480. (S)
SEMINAR IN FINANCE

3 credits

Selected topics in the area of finance studied in depth under the direction of staff. Prerequisite: Senior standing.

INFORMATION SYSTEMS

Assistant Professors: Damanpour, Rappaport

Information Systems courses may be taken as electives. The management department coordinates these courses.

Information Systems 301. (F, S)
INTRODUCTION TO INFORMATION SYSTEMS

3 credits

Organizational levels of decision making, long range planning, and routine control. Definition and role of an information system in the organization. Systems planning by setting objectives and writing the project proposal. The gross design, information needs and sources, inputs and outputs. The detailed design, operating subsystems, costs and time of processing, hardware and software capacities. Prerequisite: Computer Science 151.

Information Systems 302. (S)
MANAGEMENT INFORMATION SYSTEMS DESIGN

3 credits

Sources of data, validity, reliability, and accuracy considerations of data. Collection and processing difficulties, data transformation, and introduced errors. The feasibility study, search for solutions, feasibility considerations. System requirements, documentation, performance specifications. System design, specification writing for hardware, testing, programming, quality, input and output. Implementation, testing, and evaluation. Prerequisite: Information Systems 301.

Information Systems 401. (S)
INFORMATION SYSTEMS MANAGEMENT: A PROJECT COURSE

3 credits

Developing one complete information system for a hypothetical or real organization using the structured design approach. Development of alternate designs and systems modeling. Long range information systems planning. Exposure to real world information systems problems. Prerequisite: Information Systems 302, Computer Science 154 or permission of chairperson.



LAW

Associate Professor: Domineske

Lecturer: Gembala

Law courses may be taken as electives. Law 201 is required of all business administration students. The department of finance coordinates the courses.

Law 201. (F, S)

LAW OF CONTRACTS

3 credits

Introduces the students to the more common rules and principles governing business transactions: the rights and duties of individuals resulting from contractual and quasi-contractual obligations.

Law 202. (F, S)

LEGAL ENVIRONMENT OF BUSINESS

3 credits

A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective.

Law 301. (F)

LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS

3 credits

Common and statute laws relating to the creation, operation, and termination of agencies, partnerships, and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act, and the Business Corporation Law of Pennsylvania.

Law 302. (S)

LAW OF SALES AND SALES FINANCING

3 credits

Common and statute laws relating to the sale, purchase, transfer, and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing, and secured transactions. Includes the legal relationship of bailor and bailee, shippers, and common carriers.

Law 401. (F, S)

LAW OF REAL ESTATE

3 credits

Common and statute law of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title.

Law 402. (F, S)

LAW OF NEGOTIABLE INSTRUMENTS

3 credits

Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper.

MANAGEMENT

JOSEPH SELTZER, Ph.D., Chairperson

Professors: Goldner, Halpin

Associate Professors: Joglekar, MacLeod, Seltzer, Troxell

Assistant Professors: Chaganti, Damanpour, Korzeniowski, Meisel, Miller, Rappaport, Szabat

Instructor: Rosen

Required for Professional Option in Management: 4 courses

Requirements for each of the several available concentrations are listed below. Students whose goals are not met by one of these concentrations may design an individualized program in

consultation with the chairman. Some quantitative analysis courses or information systems courses may be substituted for management courses with the permission of the chairman.

Concentrations:

- Operations Management: Management 304 or 305; 401 or 404 or 480; any 2 of: Management 306, Information Systems 301, Quantitative Analysis 301, 302, 303; one additional management course.
- Organization Behavior: Choose courses from each group:

<i>Group 1</i> (choose 3)	<i>Group 2</i> (choose 1)
Management 303, 306, 307, 350, 481	Management 401, 404, 480
Relations 302, 307	
- Management Information Systems: Information Systems 301, 302, 401; Computer Science 154.
- Management of Public Systems: Information Systems 301; Management 305; Quantitative Analysis 214, 301. Two additional courses in arts and sciences from among the following: Economics 404, Computer Science 254, Political Science 247, Economics/Sociology 320 and 321, Sociology 203, 207, Psychology 364, Management 481.

Management 201. (F, S)

ORGANIZATION AND MANAGEMENT OF HUMAN RESOURCES

3 credits

Interpersonal and intergroup perception, communication, individual motives, organizational structure, leadership and management styles and their influences on human behavior, considerations of costs, efficiency, morale, effectiveness, traditional and modern organization theories, centralization vs. decentralization. Experiential approach supplemented with cases and readings.

Management 300. (F, S)

INTRODUCTION TO OPERATIONS MANAGEMENT

3 credits

Plant layout, plant location, work methods, inventory control, scheduling, productivity measurement, incentive systems, interrelationships with other departments. Problems from various service and manufacturing industries, including quantitative appreciation of techniques like EOQ, expected values. Prerequisites: Mathematics 111, 112, Quantitative Analysis 213.

Management 303. (F)

CREATIVE THINKING AND DECISION MAKING

3 credits

Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision making analyzed and evaluated in writing. Comprehensive reports required. Prerequisites: Management 201, 300, Business Core.

Management 304. (F)

PRODUCTION PLANNING AND CONTROL

3 credits

Inventory control systems, PERT/TIME, PERT/COST, design of production control system, product mix problems, transportation problems and scheduling, forecasting and planning, automation and related problems. Applications to manufacturing industries. Prerequisite: Management 300. Not to be taken if Management 305 is taken.

Management 305. (S)

PLANNING AND CONTROL IN SERVICE INDUSTRIES

3 credits

Selected topics in planning and control, such as inventory control systems, PERT, scheduling, forecasting, queuing theory, system design. Applications in several service institutions like hospitals, airlines, banks, post offices, schools, telephone companies, utilities, etc. Prerequisite: Management 300. Not to be taken if Management 304 is taken.

Management 306. (S)**CORPORATE PLANNING AND MANAGEMENT CONTROL**

3 credits

The nature and principles of corporate planning, relationship of planning to management control, and the structure and process of management control in organizations. Prerequisite: Management 201.

Management 307. (F, S)**ORGANIZATIONAL ANALYSIS**

3 credits

Emphasizes the empirical development of a multidimensional program integrating selection, training and development, motivation, and task and organization design. Assessment techniques of major firms are examined, bridging the gap between theory and practice. Prerequisite: Management 201.

Management 350. (F, S)**EFFECTIVE COMMUNICATION**

3 credits

An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Course generally equivalent with Psychology 350. Prerequisite: permission of instructor.

Management 401. (F, S)**BUSINESS POLICY**

3 credits

Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: senior standing.

Management 404. (F, S)**SMALL BUSINESS CONSULTING**

3 credits

The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: Management 201, 300, Business Core.

Management 450. (F, S, Summer)**COOPERATIVE EDUCATION**

3 credits

A paid, managerial job (minimum duration: 16-week full-time equivalent) in an area firm or government agency. Appropriate job related learning assignments under faculty supervision. Consult department chairman.

Management 480. (S)**SEMINAR IN MANAGEMENT**

3 credits

Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive reports required. Prerequisite: senior standing.

Management 481. (S)**MULTINATIONAL MANAGEMENT**

3 credits

Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations, commitments, and protections examined. Prerequisite: Business Core.



MARKETING

L. THOMAS REIFSTECK, M B A., *Chairman*
Associate Professors: McCloskey, Reifsteck, Swayer
Assistant Professor: Bean
Instructors: German, Horiuchi, Javie

Required for Professional Option in Marketing: 4 courses

- Marketing 301, 302, 401, 402
- Concentration in Logistics of Marketing: Marketing 301, 303, 304, 404, 405

Marketing 201. (F, S)

PRINCIPLES OF MARKETING

3 credits

Principles and factors relating to the marketing functions in the American economy. The nature, significance and functions of marketing; consumer motivation; behavior and buying problems; wholesaling and retailing of consumer goods; marketing industrial goods and raw materials; market research and merchandise development; buying, selling, price policies and practices; channels of distribution; and governmental relationships to marketing.

Marketing 301. (F)

PERSONAL SELLING

3 credits

The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers, and ethics in salesmanship. Prerequisite: Marketing 201.

Marketing 302. (S)

ADVERTISING

3 credits

Economic and social aspects of advertising, including the important methods and techniques of research which form the basis of any advertisement or advertising campaign; a practical treatment of copy, layout and media; effectiveness of advertising, advertising departments and the advertising agency. Prerequisite: Marketing 201.

Marketing 303. (S)

SALES ADMINISTRATION

3 credits

The activities of a sales administrator in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisites: Marketing 201 and junior standing.

Marketing 304. (F)

INDUSTRIAL MARKETING

3 credits

Products, services, and administration related to industrial marketing of capital equipment, technology, and commodity items as well as systems. Planning (research sources, analysis, projection) and administration (advertising, promotion, audiences, result measurement), and case study supplemented by conventional lecture and discussion. Prerequisite: Marketing 201.

Marketing 401. (F)

MARKETING RESEARCH

3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation. Prerequisites: Quantitative Analysis 213, Marketing 201, Mathematics 112.

Marketing 402. (S)

MARKETING MANAGEMENT

3 credits

Integrates all other marketing courses. Study of actual business cases employing managerial approach to marketing; emphasis on decision making and the strategies used by the marketing manager as he adapts his marketing mix to rapidly changing conditions.

Marketing 403. (F)**INTERNATIONAL COMMERCE**

3 credits

Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of experiences of U.S. firms having foreign operations. Identical with Finance 403. Prerequisites: Marketing 201, Finance 201.

Marketing 404.**WHOLESALE**

3 credits

In-depth study of various types of middlemen, distributors and agents, focusing on their contribution to the distribution channel. Integrated wholesaling and coops and understanding of the functions performed and services offered. Prerequisite: Marketing 201.

Marketing 405.**MARKETING CHANNELS**

3 credits

The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing. Prerequisite: Marketing 201.

SPECIAL TOPICS**Marketing 271. (S)****CONSUMER BEHAVIOR**

3 credits

A study of the consumer to allow the marketing manager to develop better marketing strategies. The course looks at the complex nature of the human being in terms of the social, cultural, psychological, and economic dimensions of man as they apply to this decision making and acquisitive nature.

Marketing 272. (F)**RETAILING**

3 credits

A study of the managerial aspects of the retail institution as part of the total marketing system. The course concentrates on the environmental forces impinging on the system, the role of retailing and the management of retail institutions.

PERSONNEL AND LABOR RELATIONS*Professor: Halpin**Assistant Professor: Korzeniowski*

The department of management coordinates the courses in this area

Required for Professional Option in Personnel and Labor Relations: 4 courses

- *Required:* Relations 301, 302, 401
- *Choose One:* Relations 303, 304, or 307

Relations 301. (F, S)**LABOR PROBLEMS IN AMERICA**

3 credits

Sources of the union movement, its history, structure, and functions. Development of economic, political, and social power; problems involved in the use of this power; management rights and management reaction to unions. Outside readings and term paper required.



Relations 302. (F, S)**PERSONNEL ADMINISTRATION**

3 credits

Designed to train students to analyze existing programs, to adapt procedures and to develop original methods which will insure efficient personnel administration. Job analysis; policy determination and administration; selection, promotion, transfer, and E.E.O.; health, safety, and OSHA.

Relations 303. (F)**LABOR LEGISLATION**

3 credits

Analysis of the important federal and state statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act, the Landrum-Griffin Act, Title 5, Chapter 71, the Federal Service Labor-Management Relations Statute, and Pennsylvania's Public Employee Relations Act. Prerequisite: Relations 301. Outside readings and legal research problems required.

Relations 304. (S)**WAGE, SALARY, AND BENEFIT ADMINISTRATION**

3 credits

Study of compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required.

Relations 307. (F, S)**HUMAN RESOURCE DEVELOPMENT**

3 credits

The study of employee training and career development of personnel in organizations. Emphasis on designing, evaluating, and managing training and development programs. Examination of training and development programs applied to specific employee groups.

Relations 401. (S)**COLLECTIVE BARGAINING**

3 credits

External and internal factors influencing the establishment of trade agreement and application of these provisions to day-to-day employer-employee problems through an analysis of authentic cases drawn from manufacturing and service industries. Prerequisites: Relations 301 or 302. Outside readings, research problems, and student reports required.

Relations 450.**COOPERATIVE EDUCATION**

3 credits

Identical to Management 450.

QUANTITATIVE ANALYSIS

Associate Professor: Troxell

Assistant Professors: Damanpour, Miller, Rappaport, Szabat

The department of management coordinates the courses in this area.

Required for Professional Option in Quantitative Analysis: 4 courses

- Quantitative Analysis 214, 301, 302, 303

Quantitative Analysis 213. (F, S)**INTRODUCTION TO BUSINESS STATISTICS**

3 credits

Theory, methods, and applications of descriptive and inferential statistical techniques for management problem solving. Prerequisite: sophomore standing.

Quantitative Analysis 214. (F, S)**INTERMEDIATE STATISTICS**

3 credits

Statistical inference; tests of significance; chi square, analysis of variance; multiple and partial regression and correlation procedures. Other methods of analyzing data. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 301. (F)**QUANTITATIVE TECHNIQUES IN DECISION MAKING**

3 credits

Decision theory, value of information, sensitivity analysis, dynamic programming and other methods of decision making. Prerequisites: Quantitative Analysis 213, Management 300.

Quantitative Analysis 302. (S)**STATISTICAL QUALITY ASSURANCE**

3 credits

Control charts for variable and attributes, acceptance sampling plans; costs of quality. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 303. (S)**TOPICS IN APPLICATION OF STATISTICS**

3 credits

Selected topics from nonparametric statistics and sample survey methods, Bayesian statistics, design of experiments, and other applications. Prerequisite: Quantitative Analysis 214.

SPECIAL OPTIONS

The Special Option consists of a suitable combination of four advanced courses in the School of Business Administration or in other departments of the College. The Special Option is intended for those who elect a broad approach to their undergraduate education, for students who may have a professional objective for which the available professional options do not offer appropriate preparation, and for students who intend to enter graduate school and may wish to prepare themselves for advanced education through a special program of courses. For a Special Option program, the proposed program is submitted to the Office of the Dean of the School of Business Administration for approval.

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RISK MANAGEMENT AND INSURANCE

*Associate Professor: J. Kelly**Lecturer: Huntoon***RMI 301.****FUNDAMENTALS OF RISK AND INSURANCE**

3 credits

Introduction to the underlying principles, practices, and the legal aspects of risk management and insurance: survey of life, health, fire, marine, fidelity and corporate surety, workers' compensation, title, and credit insurance.

RMI 302. (F, S)**INTRODUCTION TO LIFE INSURANCE**

3 credits

The problems of alternative techniques for insuring of human life values considered from the differing viewpoints of the company, the economy, and the consumer. Financial needs in the life cycle of the family; estate planning; elements of business insurance, such as group life and health insurance and pensions planning; mortality; underwriting; and regulation of reserves.

RMI 311. (S)**HEALTH CARE INSURANCE**

3 credits

An interdisciplinary approach to the techniques and problems of financing health care with emphasis on prepayment devices, including medical insurance benefit systems, Blue Cross-Blue Shield prepayment plans, independent prepayment plans, and medical expense benefits through social insurance and social welfare programs. Effects of financing methods on the availability, quality, and planning of health care explored.

RMI 312. (S)**PROPERTY AND LIABILITY CONTRACTS**

3 credits

Detailed examination of the major commercial policies and forms as well as the principal individual policies. Included are fire and allied lines, business interruption and extra expense coverage, ocean and inland marine, crime, liability, auto and workmen's compensation policies along with bonding. Prerequisite: RMI 301.

RMI 313. (F)**PENSION AND ESTATE PLANNING**

3 credits

A study of the relationship of life insurance, lifetime gifts, life estates, trusts, and different types of bequests to income, gift, and estate taxes. Private and governmental pension plans considered. Prerequisite: RMI 302.

RMI 314. (F)**RISK MANAGEMENT**

3 credits

Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment of pure risk and self-insurance. Prerequisites: RMI 301 and QNT 213 (or equivalent).

RMI 420. (S)**OPERATIONS AND MANAGEMENT OF THE INSURANCE FIRM**

3 credits

A functional course emphasizing the interrelationships between the underwriting, investment, regulation and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate the interrelationships. Prerequisites: RMI 301 or 302, and Accounting 101.



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Olney Avenue Entrance



Campus Mall

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Hayman Hall



College Union



Wister Annex-Library



Residence Hall



College Hall



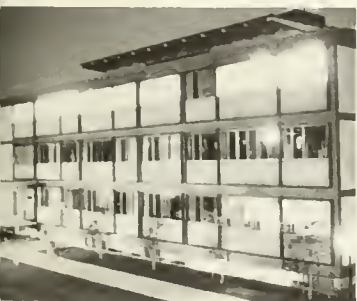
TV Studio



Quadrangle



College Union Ballroom



Holroyd Science Center



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LA SALLE COLLEGE

CALENDAR

1983-1984

Fall Semester

August 24	Final date to complete registration by mail
August 30, 31	
September 1	On-campus registration—9:00 A.M. to Noon
September 6	Residence Halls open for freshmen and transfer students
September 7	Residence Halls open for other returning students
September 7	Beginning of classes
September 14	Last day for change of roster and late registration
October 23	Academic Convocation
October 31	Mid-semester holiday
November 2	Mid-semester grades due
November 9	Last day for withdrawal from courses
November 24, 25	Thanksgiving holidays
December 13	Classes end for fall semester
December 14	Reading Day
December 15-21	Final examinations

Spring Semester

January 11, 12	On-campus registration—9:00 A.M. to Noon
January 16	Residence Halls open
January 16	Beginning of classes
January 20	Last day for change of roster or removal of "I" grades
March 5-9	Mid-semester holiday
March 14	Mid-semester grades due
March 21	Last day for withdrawal from courses
April 20	Easter recess begins
April 24	Classes resume at 8:30 A.M.
April 27	Classes end for spring semester
April 30-	
May 4	Final examinations
May 15	Commencement

LA SALLE COLLEGE

PHILADELPHIA, PENNSYLVANIA 19141

BULLETIN 1983-1984

SECOND CLASS

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